

July 8, 2015 Exceptional Event, Imperial County

Appendix A - Supplemental

466
FXUS66 KSGX 070353
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
855 PM PDT MON JUL 6 2015

.SYNOPSIS... LOW PRESSURE MOVING SLOWLY INLAND OVER CENTRAL CALIFORNIA THROUGH THURSDAY WILL CONTINUE TO DEEPEN THE MARINE LAYER... BRINGING COOLER DAYS AND GUSTY WESTERLY WINDS WELL INLAND INTO THE DESERTS. THE DEEP MARINE LAYER MAY PRODUCE PATCHY DRIZZLE AT TIMES... ESPECIALLY LATE NIGHTS AND MORNINGS AS THE CLOUD LAYER THICKENS. CLEARING MAY BE LIMITED SOME DAYS WEST OF THE MOUNTAINS. THE SUBTROPICAL HIGH WILL BEGIN TO BUILD BACK TO THE WEST BY THE WEEKEND... WHICH WILL DECREASE THE MARINE LAYER AND BRING WARMER DAYS INTO NEXT WEEK.

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.DISCUSSION... FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO... WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

THUNDERSTORMS ERUPTED OVER THE SAN BERNARDINO MOUNTAINS AND HIGH DESERTS AGAIN THIS AFTERNOON. A FEW STORMS NEAR THE LAKE FIRE BROUGHT HEAVY RAIN WILL RESULTED IN A MUD/ASH/DEBRIS FLOW THAT BRIEFLY BRIEFLY CLOSED HIGHWAY 38. ELSEWHERE... STREET FLOODING WAS REPORTED IN LUCERNE VALLEY BETWEEN 330-430 PM WHEN A STRONG THUNDERSTORM ROLLED ACROSS THAT AREA. THE STORMS DISSIPATED WITH THE SETTING SUN AND SKIES WILL BE MOSTLY CLEAR OVER THE MOUNTAINS AND DESERTS TONIGHT.

THE MONSOONAL FLOW PATTERN IS WINDING DOWN AND THE TREND IS TOWARD A MUCH DRIER AIRMASS THE REST OF THE WEEK. HOWEVER... THE MONSOON MOISTURE HANGS ON ACROSS THE UPPER DESERTS TUESDAY AFTERNOON WHERE THE 18Z WRF SHOWS PWATS AROUND 1.00". AFTERNOON CU WILL PROBABLY FORM IN THIS AREA ALONG THE CONVERGENCE BOUNDARY SET BY THE AFTERNOON ONSHORE WINDS FUNNELING THROUGH THE CAJON PASS... MOST LIKELY FROM THE JOHNSON VALLEY NORTHWARD TO BARSTOW/DAGGETT.

OVERALL THOUGH... THE WEATHER THE NEXT SEVERAL DAYS WILL BE DOMINATED BY DRY SOUTHWEST FLOW AHEAD OF A LOW PRESSURE OFF THE CA COAST THAT WILL SLOWLY MOVE INLAND OVER CENTRAL CA BY THU. FALLING/HEIGHTS AND THICKNESS WILL MAINTAIN MODERATE TO STRONG ONSHORE FLOW FOR THIS TIME OF YEAR AND FURTHER COOLING THROUGH THU... ESPECIALLY INLAND WHERE MAX TEMPS WILL BE AROUND TEN DEGREES F BELOW AVERAGE. THE MARINE LAYER WILL REMAIN UNSEASONABLY THICK... RESULTING IN MORE OF A JUNE GLOOM SITUATION WITH PATCHY DRIZZLE POSSIBLE AT TIMES AND LIMITED CLEARING WEST OF THE MOUNTAINS.

GRADUALLY WARMER THIS COMING WEEKEND INTO EARLY NEXT WEEK AS THE MARINE LAYER DECREASES UNDER BUILDING HIGH PRESSURE ALOFT. THE UPPER HIGH IS FORECAST TO RETROGRADE FROM THE GULF COAST REGION FRI... TO THE SOUTHERN ROCKIES MON. THIS WILL SLOWLY BRING BACK MONSOONAL MOISTURE BY TUE AS OUR MID-LEVEL WINDS SWITCH FROM SOUTHWEST TO SOUTH.

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.AVIATION... 070400Z... COAST/VALLEYS... BKN/OVC STRATUS ALREADY COVERS THE COASTAL AREAS AND WILL SPREAD THROUGH THE VALLEYS BY 07Z. BASES WILL BE 1100-1700 FT MSL WITH TOPS TO 2500-3000 FT MSL AND HIGHER TERRAIN OBSCURED. BELOW THE CLOUD BASES... MOST VIS WILL BE 6+ MILES EXCEPT LOCALLY 3-5 MILES IN DRIZZLE/MIST. SKIES WILL CLEAR VERY SLOWLY TUESDAY... WITH BKN/OVC STRATUS WITHIN 5-10 MILES OF THE SAN DIEGO COUNTY COAST POSSIBLY LINGERING THROUGH TUE AFTERNOON. BKN/OVC STRATUS WILL BE WIDESPREAD AGAIN TUE NIGHT.

MTNS/DESERTS... UNRESTRICTED VIS WILL CONTINUE THROUGH TUE NIGHT. MOSTLY CLEAR SKIES WILL PREVAIL THROUGH TUE NIGHT EXCEPT FOR SCT CU/TCU OVER THE MTNS/HIGH DESERTS TUE AFTERNOON. LOCAL WEST SFC WINDS 15-25 KT GUSTS TO 35 KT WILL OCCUR THIS EVENING AND AGAIN TUE LATE AFTERNOON/EVENING THROUGH SAN GORGONIO PASS AND ON DESERT MTN SLOPES.

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.MARINE... 900 PM... NORTHWEST WINDS COULD GUST 20 TO 25 KT IN THE OUTER WATERS TUE EVENING. A SMALL CRAFT ADVISORY MAY BE NEEDED.

OTHERWISE...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH SATURDAY.

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.SKYWARN... SKYWARN ACTIVATION WILL NOT BE NEEDED ON TUESDAY. HOWEVER...WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...NONE.

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PUBLIC...MOEDE

AVIATION/MARINE...MAXWELL

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FXUS66 KSGX 070951
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
251 AM PDT TUE JUL 7 2015

.SYNOPSIS...

A SLOW MOVING LOW PRESSURE SYSTEM OFF THE CALIFORNIA COAST WILL MOVE INLAND THROUGH CENTRAL AND SOUTHERN CALIFORNIA THURSDAY BRINGING STRONGER ONSHORE FLOW AND DRY SOUTHWEST FLOW ALOFT WITH INLAND COOLING AND GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS AT TIMES. THE MARINE LAYER WILL DEEPEN WITH AREAS OF NIGHT AND MORNING LOW CLOUDS WITH PATCHY FOG AND DRIZZLE EXTENDING ONTO THE LOWER MOUNTAIN SLOPES. THERE WILL CONTINUE TO BE SLOW OR LIMITED CLEARING NEAR SOME BEACHES EACH AFTERNOON. THE TROUGH OF LOW PRESSURE WILL WEAKEN FOR FRIDAY THROUGH EARLY NEXT WEEK WITH WARMING TO NEAR SEASONAL LEVELS FOR EARLY NEXT WEEK ALONG WITH A GRADUALLY SHALLOWER MARINE LAYER.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO
COUNTIES...

A SLOW MOVING LOW PRESSURE SYSTEM OFF THE CALIFORNIA COAST WILL MOVE INLAND THROUGH CENTRAL AND SOUTHERN CALIFORNIA THURSDAY. THIS WILL BRING STRONGER ONSHORE FLOW AND DRY SOUTHWEST FLOW ALOFT WITH INLAND COOLING...GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS AT TIMES...AND A DEEPER MARINE LAYER. THIS IS AN ANOMALOUSLY DEEP LOW PRESSURE SYSTEM FOR SOUTHERN CALIFORNIA FOR JULY WITH 500 MB HEIGHTS OVER SOUTHERN CALIFORNIA ON THURSDAY AROUND FOUR STANDARD DEVIATIONS BELOW AVERAGE.

THE MARINE LAYER WILL SLOWLY DEEPEN FROM AROUND 3000 FEET THIS MORNING TO AROUND 4500 FEET ON THURSDAY AND FRIDAY MORNINGS. NIGHT AND MORNING COASTAL LOW CLOUDS WITH PATCHY FOG AND DRIZZLE WILL EXTEND ONTO THE LOWER COASTAL MOUNTAIN SLOPES. THERE WILL CONTINUE TO BE SLOW OR LITTLE CLEARING NEAR SOME BEACHES EACH AFTERNOON.

INLAND HIGH TEMPERATURES WILL CONTINUE TO COOL INTO THURSDAY WITH THURSDAY HIGH TEMPERATURES FOR SOME MOUNTAIN AND INLAND VALLEY AREAS 15 TO 20 DEGREES BELOW AVERAGE.

FOR FRIDAY THROUGH EARLY NEXT WEEK...THE TROUGH OF LOW PRESSURE WILL WEAKEN WITH WARMING TO NEAR SEASONAL LEVELS FOR EARLY NEXT WEEK ALONG WITH A GRADUALLY SHALLOWER MARINE LAYER.

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.AVIATION...
070900Z...COAST/VALLEYS...STRATUS...WITH BASES FROM 1500-2300 FT MSL AND TOPS TO 2600 FT MSL...HAS DEVELOPED OVER THE COAST...AND WILL CONTINUE TO PUSH INTO THE VALLEYS OVERNIGHT. AN AIRCRAFT SOUNDING FROM KSN AT 07/0600Z SHOWED A MARINE LAYER INVERSION OF 9 DEG C. VIS OF 2-4 SM BR WILL BE POSSIBLE WHERE STRATUS NEARS HIGHER TERRAIN. -DZ IS POSSIBLE NEAR SUNRISE. LOW CLOUDS WILL SLOWLY ERODE OVER THE VALLEYS LATE THIS MORNING...BUT WILL LIKELY LINGER OVER THE COAST THROUGHOUT THE DAY. LOW CLOUDS WILL PUSH BACK INTO THE VALLEYS AGAIN THIS EVENING...WITH SLIGHTLY HIGHER TOPS AND BASES. FORECASTER CONFIDENCE IN STRATUS TIMING AND DEPTH IS MODERATE TO HIGH.

MTNS/DESERTS...FEW/SCT CUMULUS CLOUDS OVER THE MTNS/HIGH DESERTS IN THE AFTN. LOCAL WEST SFC WINDS 15-25 KT GUSTS TO 35 KT LATE AFTN/EVENING THROUGH SAN GORGONIO PASS AND ON DESERT MTN SLOPES. OTHERWISE...MOSTLY CLEAR WITH UNRESTRICTED VIS THROUGH WED MORNING.

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.MARINE...
200 AM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH SATURDAY.

&&

.SKYWARN...

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FXUS65 KPSR 071048
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
348 AM MST TUE JUL 7 2015

.SYNOPSIS...

TODAY WILL BE THE LAST OPPORTUNITY FOR THUNDERSTORMS ON THE LOWER ELEVATIONS FOR THE NEXT SEVERAL DAYS AS DRIER SOUTHWESTERLY FLOW DEVELOPS ACROSS THE REGION. RAINFALL CHANCES WILL PRIMARILY BE RELEGATED TO THE MOUNTAINS OF NORTHERN AND EASTERN ARIZONA. DESPITE THE LACK OF STORM ACTIVITY...TEMPERATURES WILL REMAIN SLIGHTLY BELOW NORMAL. DURING THIS UPCOMING WEEKEND...HIGH PRESSURE WILL BEGIN TO STRENGTHEN LEADING TO WARMER TEMPERATURES AND POSSIBLY AN INCREASE IN MOISTURE.

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.DISCUSSION...

TODAY AND WEDNESDAY...

MOISTURE CONTINUES TO BE SLOWER TO DECLINE THAN PREVIOUSLY ANTICIPATED AND THUS REINTRODUCED SLIGHT CHANCE POPS ON THE LOWER DESERTS TODAY EAST OF THE LOWER COLORADO RIVER VALLEY. ANOTHER FACTOR IS THE POTENTIAL FOR SUBTLE PERTURBATIONS WITHIN THE SOUTHWESTERLY FLOW TO POSSIBLY ENHANCE THE CAPE THAT IS LEFT. THERE MAY ALSO BE A LITTLE BIT OF DIFFLUENCE OVER OUR AREA BUT NOT NEARLY TO THE SAME DEGREE AS IS OVER VEF CWA. HOWEVER...WOULD ANTICIPATE LESS STORM COVERAGE THAN WAS SEEN ON MONDAY AS THERE WILL BE SOME FURTHER DRYING. THE SOUTHWESTERLY FLOW OVER OUR AREA IS PART OF A REX PATTERN OVER THE NORTHEAST PACIFIC WITH AN UPPER LOW...CENTERED OFF THE NORTHERN CALIFORNIA COAST...TRAPPED UNDER NARROW RIDGE WITH THE MAIN ANTICYCLONIC CENTER NEAR THE B.C. CANADA COAST. MODELS CONTINUE TO DEPICT THE LOW ADVANCING SLOWLY EASTWARD LEADING TO AN EASTWARD RETREAT OF DEEPER MOISTURE WITH STORM CHANCES CONFINED TO EASTERN ARIZONA WITH JUST OUR HIGHER TERRAIN ZONE HAVING ANY POPS. OF NOTE IS THAT STRONGER FLOW ALOFT ALSO MOVES OVER THE DESERT SOUTHWEST WHICH COULD BE A PLAYER FOR AREAS THAT HAVE THE MOISTURE.

THURSDAY AND FRIDAY...

AS THE UPPER LOW CENTER MOVES OVER SRN CALIFORNIA THURSDAY...A DEEPER SOUTHERLY FLOW TEMPORARILY INCREASES MOISTURE OVER SOUTHEAST ARIZONA...WITH A SHARP DROP OFF IN MOISTURE OVER CENTRAL ARIZONA. DURING THE DAY THURSDAY...THE LOW SWINGS A VORT LOBE THROUGH SOUTHEAST CALIFORNIA AND WESTERN ARIZONA...BRUSHING EASTERN ARIZONA. ASSOCIATED DYNAMICAL FORCING LOOKS TO BE LESS THAN ROBUST OVER THE AREAS WHERE THE MOISTURE WILL BE WITH THE JET AXIS REMAINING TO THE WEST. HOWEVER...NUDGED UP THE POPS OVER ZONE 24 AS EVEN SUBTLE INFLUENCES CAN MAKE A DIFFERENCE THIS TIME OF YEAR. THE LOW QUICKLY SHIFTS OFF AND WEAKENS BUT IS REPLACED BY RENEWED TROUGHING WHICH KEEPS A JET IN PLACE OVER SOUTHEAST CALIFORNIA AND NORTHERN ARIZONA FRIDAY. VERTICAL WIND SHEAR PEAKS ON THURSDAY AND FRIDAY SO ANY STORMS THAT CAN SURVIVE COULD BE POTENT. ANTICIPATE TEMPS TO BE BELOW NORMAL WITH THIS THE PASSAGE OF THE LOW.

SATURDAY THROUGH MONDAY...

MODELS CONTINUE TO DEPICT A WESTWARD EXPANSION OF THE HIGH CENTERED TO OUR EAST WITH MOISTURE IMPROVING OVER THE LOWER DESERTS. THE GFS CONTINUES TO BE MORE GENEROUS WITH THE MOIST ADVECTION THAN THE ECMWF. THIS IS LIKELY DUE IN PART TO HOW THE GFS HAS MORE OF A SOUTHERLY COMPONENT TO THE FLOW WITH DEEPER COASTAL TROUGHING. ACCORDINGLY IT ALSO SHOWS STRONGER WINDS ALOFT OVER OUR FORECAST AREA. IN ADDITION...IT SHIFTS THE TROUGH NORTHEASTWARD SUNDAY WITH A JET MOVING THROUGH CALIFORNIA AND INTO THE GREAT BASIN WITH THE ENTRANCE REGION OVER OUR FORECAST AREA FOR A BRIEF TIME. TAKING CONSERVATIVE APPROACH DUE TO INHERENT UNCERTAINTIES...GOING WITH ONLY SLIGHT CHANCE POPS OVER THE SOUTH-CENTRAL DESERTS SUNDAY WHICH IS AN WESTWARD EXPANSION COMPARED TO PRECEDING DAYS. THERE IS AN EVEN GREATER DIFFERENCE BETWEEN GFS AND ECMWF IN MOISTURE FOR MONDAY AS THE ECMWF HOLDS ON TO THE WEST COAST TROUGHING AND NUDGES IT FURTHER EAST FOR MORE DRYING. THE GFS MEANWHILE EXPANDS THE HIGH FURTHER WEST FOR A BIT OF ADDITIONAL WARMING ALOFT. BOTH OF THOSE SCENARIOS...ESPECIALLY ECMWF...COULD HAVE A NEGATIVE IMPACT ON STORM POTENTIAL AND SO PULLED BACK POPS FROM THE LOWER ELEVATIONS OF SOUTH-CENTRAL ARIZONA MONDAY.

&&

.AVIATION...

July 8, 2015 Exceptional Event, Imperial County

Appendix A - Supplemental

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KINW...AND KSDL...
WINDS SHOULD REMAIN OUT OF THE WEST THROUGH EARLY MORNING HOURS
TUESDAY...BEFORE SWITCHING EASTERLY. CLOUDS SHOULD REMAIN AT OR ABOVE
10K FT AND BEGIN LIFTING BY 15Z TUESDAY. ANOTHER CHANCE OF AFTERNOON
AND EARLY EVENING TSRA SHOULD REMAIN CONFINED MAINLY WELL NORTH AND/OR
EAST OF THE TERMINALS.

SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...
NO AVIATION IMPACTS UNDER MOSTLY CLEAR SKIES. WINDS WILL GENERALLY
RETAIN A SOUTHERLY COMPONENT THROUGH THE PERIOD...THOUGH COULD
BECOME VARIABLE AT TIMES TOWARDS SUNRISE. OCCASIONAL AFTERNOON GUSTS
MAY ALSO BE POSSIBLE.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

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.FIRE WEATHER...
THURSDAY THROUGH MONDAY...
ATMOSPHERIC FLOW WILL REMAIN SOUTHWESTERLY HEADING INTO THE
WEEKEND...KEEPING THUNDERSTORM CHANCES WELL TO THE EAST OF PHOENIX
OVER HIGHER TERRAIN LOCATIONS. EVEN THE TYPICALLY ACTIVE REGIONS IN
SOUTHERN GILA COUNTY MAY LACK THUNDERSTORMS DURING THE END OF THE
WEEK. MOISTURE MAY RETURN BY THE BEGINNING OF NEXT WEEK BRINGING
BACK MORE EXTENSIVE STORMS. AFTERNOON HUMIDITY LEVELS WILL RETREAT
BACK INTO A 10-15 PERCENT RANGE ACROSS LOWER ELEVATIONS WITH FAIR TO
GOOD OVERNIGHT RECOVERY. SOMEWHAT HIGHER HUMIDITY VALUES WILL BE
EXPERIENCED IN MOUNTAIN LOCATIONS. GENERALLY LIGHT AND DIURNALLY
DRIVEN WINDS SPEEDS AND DIRECTIONS WILL PREDOMINATE ALL WEEK...WITH
SOMEWHAT MORE AFTERNOON UPSLOPE GUSTINESS THAN IS TYPICAL DURING
MONSOON SEASON.

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.SPOTTER INFORMATION STATEMENT...
SPOTTERS ARE ENCOURAGED TO REPORT ANY SIGNIFICANT WEATHER CONDITIONS
ACCORDING TO STANDARD OPERATING PROCEDURES.

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.PSR WATCHES/WARNINGS/ADVISORIES...
AZ...NONE.
CA...NONE.
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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...AJ
AVIATION...DEWEY/MO
FIRE WEATHER...MO

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FXUS66 KSGX 071630
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
930 AM PDT TUE JUL 7 2015

.SYNOPSIS...

A LOW PRESSURE SYSTEM OFF OF THE CALIFORNIA COAST WILL SLOWLY MOVE INLAND THROUGH THURSDAY. THIS FEATURE WILL HELP TO INCREASE ONSHORE FLOW...CREATE COOLER CONDITIONS...AND PRODUCE A DEEP MARINE LAYER WEST OF THE MOUNTAINS. IN ADDITION...CLEARING WILL BE LIMITED AT THE BEACHES AND ALONG THE COAST THROUGH THE END OF THE WORK WEEK WITH DRIZZLE POSSIBLE DURING THE EARLY MORNINGS. AS THE SYSTEM MOVES EAST OF THE AREA FRIDAY THE WEEKEND...EXPECT SLIGHTLY WARMER WEATHER AND A SHALLOWER MARINE LAYER.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO
COUNTIES...

.SHORT TERM...

THE 12Z NKX SOUNDING...ALONG WITH METAR OBSERVATIONS AND PILOT REPORTS...INDICATED A DEEP MARINE WITH BASES NEAR 1000 FT MSL AND TOPS BETWEEN 2500-2800 FT MSL. A 9 DEGREE C TEMPERATURE INVERSION WAS ALSO NOTED...TYPICALLY STRONG ENOUGH TO KEEP LOW CLOUDS FROM SCATTERING OUT ALONG THE COAST DURING THE AFTERNOON. THE DRIZZLE THIS MORNING WAS PATCHY WEST OF THE MOUNTAINS WITH A HANDFUL OF STATIONS UP PICKING UP 0.01" OF ACCUMULATION. ONSHORE SURFACE PRESSURE GRADIENTS REMAIN MODERATELY STRONG. FOR EXAMPLE...SAN TO KIPL WAS OBSERVED AT +7.2 MB.

WATER VAPOR IMAGERY AT 830 AM PDT SHOWED A DEEP CLOSED LOW PRESSURE SYSTEM SPINNING 400 MILES WEST OF SAN FRANCISCO. THIS FEATURE WILL CONTINUE TO INFLUENCE THE WEATHER PATTERN ACROSS SOUTHERN CALIFORNIA THROUGH THURSDAY BY DEEPENING THE MARINE LAYER...INCREASING ONSHORE FLOW...AND CREATING COOLER CONDITIONS OVER THE REGION. AFTERNOON CLEARING MAY BE LIMITED ALONG THE BEACHES/COASTAL ZONES AND EARLY MORNING DRIZZLE WILL AGAIN BE POSSIBLE. WINDS IN THE MOUNTAINS AND DESERTS WILL BECOME GUSTY AT TIMES...REACHING 30 TO 40+ MPH IN THE WIND PRONE AREAS BETWEEN PASSES...SUCH AS THE SAN GORGONIO PASS...AND ON THE DESERT SLOPES. LOWERING 500 MB HEIGHTS AND INCREASED ONSHORE FLOW WILL KEEP CONDITIONS 10 TO 20 DEGREES BELOW NORMAL FOR THIS TIME OF YEAR ACROSS THE INLAND EMPIRE...INLAND VALLEYS...AND MOUNTAINS.

&&

.LONG TERM...

FOR FRIDAY THROUGH THIS WEEKEND...THE LOW PRESSURE SYSTEM IS PROGGED TO MOVE EAST OF THE AREA WITH A WEAK TROUGHING PATTERN FILLING IN BEHIND. THIS WOULD BRING SLIGHT WARMING WEST OF THE MOUNTAINS...A SHALLOWER MARINE LAYER...AND BETTER AFTERNOON CLEARING OF LOW CLOUDS ALONG THE COAST. LONG RANGE MODELS DIVERGE EARLY TO MID NEXT WEEK AS THE 06Z GFS INDICATES A RIDGE BUILDING OVER THE FOUR CORNERS REGION WHICH WOULD BRING WARMER WEATHER AND THE RETURN TO THE MOIST MONSOONAL FLOW. HOWEVER...THE 00Z ECMWF INDICATES ANOTHER TROUGH BUILDING ALONG THE WEST COAST...WHICH WOULD KEEP CONDITIONS DRY AND PROLONG THE COOL CLOUDY CONDITIONS WEST OF THE MOUNTAINS. FOR THE MOMENT...WILL RETAIN A BLEND OF THE TWO...UNTIL THE MODELS CAN WORK OUT THEIR DIFFERENCES.

&&

.AVIATION...

071518Z...COAST/VALLEYS...OVC-BKN STRATUS FILLING THE COAST AND VALLEYS...WITH BASES GENERALLY 1200-1600 FT MSL AND TOPS AROUND 2700-3500 FT MSL...WILL SLOWLY CLEAR OUT OF THE VALLEYS THROUGH 1900 UTC...WITH BKN-OVC STRATUS 1600-2500 FT MSL LINGERING WITHIN 10 SM OF THE SAN DIEGO COUNTY COAST THROUGH 08/0200 UTC...INCLUDING KCRQ AND KSN. BETTER CHANCE OF THE ORANGE COUNTY COAST CLEARING...PROBABLY BY 2200 UTC. 9 DEG C MARINE LAYER INVERSION THIS MORNING. 08/0200-1500 UTC...OVC STRATUS FILLING IN OVER THE COAST AND VALLEYS AGAIN...WITH SIMILAR BASES AND TOPS TO THIS MORNING. FORECAST CONFIDENCE MODERATE-TO-HIGH.

MTNS/DESERTS...MOSTLY SKC WITH UNRESTRICTED VIS THROUGH WEDNESDAY

MORNING. AFTER 08/0000 UTC...WEST WINDS 15-25 KT WITH GUSTS 30-35 KT
OVER MTN RIDGES...THROUGH/BELOW PASSES/CANYONS...ALONG DESERT SLOPES
AND INTO ADJACENT DESERT AREAS WILL CREATE MOD-STG UDDFS/LLWS OVER
AND EAST OF THE MTNS.

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.MARINE...
818 AM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH SATURDAY.

&&

.SKYWARN...
SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE
ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

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.SGX WATCHES/WARNINGS/ADVISORIES...
CA...NONE.
PZ...NONE.

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PUBLIC...JT/PG
AVIATION/MARINE...HARRISON

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AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
145 PM PDT TUE JUL 7 2015

.SYNOPSIS...

A LOW PRESSURE CENTERED OFF OF THE CENTRAL CALIFORNIA COAST WILL SLOWLY MOVE INLAND THROUGH THURSDAY. THIS FEATURE WILL HELP TO INCREASE ONSHORE FLOW...CREATE COOLER CONDITIONS...AND PRODUCE A DEEP MARINE LAYER WEST OF THE MOUNTAINS. IN ADDITION...CLEARING WILL BE LIMITED AT THE BEACHES AND COASTAL AREAS WITH DRIZZLE POSSIBLE DURING THE LATE NIGHTS AND EARLY MORNINGS. AS THE SYSTEM MOVES EAST OF THE AREA FRIDAY THE WEEKEND...EXPECT SLIGHTLY WARMER WEATHER AND A SHALLOWER MARINE LAYER.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

.SHORT TERM...

ACCORDING TO THE VISIBLE SATELLITE IMAGE AT 1 PM...INLAND LOW CLOUDS HAD ERODED BACK TO WITHIN 5 MILES OF THE COAST WITH MOSTLY SUNNY SKIES ELSEWHERE. A 9 DEGREE C TEMPERATURE INVERSION...NOTED ON THE 12Z MORNING NKX SOUNDING...WILL AID IN KEEPING LOW CLOUDS FROM FULLY SCATTERING OUT ALONG MANY OF THE COASTAL LOCATIONS THIS AFTERNOON. ONSHORE SURFACE PRESSURE GRADIENTS REMAIN MODERATELY STRONG. FOR EXAMPLE THE GRADIENT BETWEEN SAN AND IPL WAS OBSERVED AT +7.5 MB.

WATER VAPOR IMAGERY AT 100 PM PDT SHOWED A DEEP CLOSED LOW PRESSURE SYSTEM SPINNING 350 MILES WEST OF SAN FRANCISCO. THIS FEATURE WILL CONTINUE TO INFLUENCE THE WEATHER PATTERN ACROSS SOUTHERN CALIFORNIA THROUGH THURSDAY BY DEEPENING THE MARINE LAYER...INCREASING ONSHORE FLOW...AND CREATING COOLER CONDITIONS OVER THE REGION. AFTERNOON CLEARING MAY BE LIMITED ALONG THE BEACHES/COASTAL ZONES AND EARLY MORNING DRIZZLE WILL AGAIN BE POSSIBLE. WINDS IN THE MOUNTAINS AND DESERTS WILL BECOME GUSTY AT TIMES...REACHING 30 TO 40+ MPH IN THE WIND PRONE AREAS BETWEEN PASSES...SUCH AS THE SAN GORGONIO PASS...AND ON THE DESERT SLOPES. LOWERING 500 MB HEIGHTS AND INCREASED ONSHORE FLOW WILL KEEP CONDITIONS 10 TO 20 DEGREES BELOW NORMAL FOR THIS TIME OF YEAR ACROSS THE INLAND EMPIRE...INLAND VALLEYS...AND MOUNTAINS.

&&

.LONG TERM...

FOR FRIDAY THROUGH THIS WEEKEND...THE AFOREMENTIONED LOW PRESSURE SYSTEM WILL SLIDE EAST OF THE AREA AND A WEAK WEST COAST TROUGH WILL TAKE ITS PLACE. THIS PATTERN WOULD BRING SLIGHT WARMING WEST OF THE MOUNTAINS...A SHALLOWER MARINE LAYER...AND BETTER AFTERNOON CLEARING OF LOW CLOUDS ALONG THE COAST. BY EARLY TO MID NEXT WEEK...LONG RANGE MODELS ARE IN AGREEMENT OF A HIGH PRESSURE CELL RESIDING OVER NEW MEXICO WITH A WEAK TROUGH DEVELOPING OFF OF THE WEST COAST. HOWEVER...THE 12Z GFS IS A BIT MORE AGGRESSIVE ON ROTATING MONSOONAL MOISTURE INTO THE AREA BY MID NEXT WEEK WITH SOUTH/SOUTHEAST FLOW ALOFT...WHILE THE 12Z ECMWF REMAINS DRY.

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.AVIATION...

072035Z...COAST/VALLEYS...BKN-OVC STRATUS 1600-2000 FT MSL LINGERING WITHIN 10 SM OF THE COAST THROUGH 08/0200 UTC...INCLUDING KSN...KSNA AND KCRQ...ALTHOUGH TEMPO SCT-FEW CIGS POSSIBLE FOR MAYBE AN HOUR OR TWO. SKC AND UNRESTRICTED VIS ELSEWHERE. 08/0200-1500 UTC...OVC STRATUS FILLING IN OVER THE COAST AND VALLEYS AGAIN...WITH BASES 1200-1600 FT MSL AND TOPS 2700-3500 FT MSL. FORECAST CONFIDENCE MODERATE-TO-HIGH. SLOW CLEARING AGAIN AFTER 08/1500 UTC.

MTNS/DESERTS...MOSTLY SKC WITH UNRESTRICTED VIS THROUGH WEDNESDAY MORNING...WITH JUST SOME SCT-FEW CLOUDS AOA 10000 FT MSL OVER THE MTN RIDGES AND HIGH DESERTS THIS AFTERNOON. AFTER 08/0000 UTC...WEST WINDS 15-25 KT WITH GUSTS 30-35 KT OVER MTN RIDGES...THROUGH/BELOW PASSES/CANYONS...ALONG DESERT SLOPES AND INTO ADJACENT DESERT AREAS WILL CREATE MOD-STG UDDFS/LLWS OVER AND EAST OF THE MTNS.

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FXUS65 KPSR 080305
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
805 PM MST TUE JUL 7 2015

.UPDATE...

QUIET EVENING ACROSS MUCH OF ARIZONA. FROM 02Z TO 03Z THERE WERE ABOUT 500 PULSES OF LIGHTNING STATEWIDE...AND THAT TREND WAS QUICKLY SUBSIDING. PER 08.00Z SOUNDINGS...WESTERLY FLOW IS NOW ESTABLISHED ACROSS ALL OF SOUTHERN CALIFORNIA AND ARIZONA FROM THE TROPOSPHERE DOWN TO 700MB. THIS IS ADVECTING DRIER AIR INTO OUR SLICE OF THE WORLD/COUNTY WARNING AREA...PWAT VALUE AT KPSR WAS 1.1 INCHES...K1Y7 AT 0.9 INCHES...AND 1.2 INCHES AT KTUS WHICH IS IN THE RANGE OF AVERAGE FOR JULY. SURFACE DEWIES ARE 40S TO LOWER 50S. THIS ALL POINTS TO NO ACTIVITY FOR THE LOWER DESERTS FOR THE REST OF TONIGHT AND EVEN LIMITED TO NO ACTIVITY FOR THE HIGHER LOCATIONS IN MARICOPA/SRN GILA COUNTIES. THIS IS CONFIRMED WITH THE PAST SEVERAL RUNS OF THE HRRR. THEREFORE HAVE DROPPED POPS TONIGHT.

&&

.SYNOPSIS...

THUNDERSTORM CHANCES WILL BE SIGNIFICANTLY LOWER THAN USUAL FOR THE MIDDLE OF THE MONSOON SEASON...AND PRIMARILY RELEGATED TO THE MOUNTAINS OF NORTHERN AND EASTERN ARIZONA THE NEXT SEVERAL DAYS. DESPITE THE LACK OF STORM ACTIVITY...TEMPERATURES WILL REMAIN NEAR TO SLIGHTLY BELOW NORMAL. BEYOND THIS UPCOMING WEEKEND...HIGH PRESSURE WILL REPOSITION AND STRENGTHEN AGAIN LEADING TO WARMER TEMPERATURES AND POSSIBLY AN INCREASE IN MOISTURE.

&&

.DISCUSSION...

UNUSUALLY STRONG SWLY FLOW ALOFT CONTINUES ACROSS THE SWRN CONUS AHEAD OF AN ANOMALOUSLY DEEP GYRE OFF THE CNTRL CALIFORNIA COAST. 12Z KTRC AND KPSR SOUNDING DATA STILL SHOWED LINGERING PESKY SFC-H7 MOISTURE (MIXING RATIOS 10-11 G/KG)...WITH SUBSTANTIALLY DRIER AIR ALOFT. HOWEVER...SFC DEWPOINTS THROUGH SWRN ARIZONA HAVE TANKED SIGNIFICANTLY TODAY...WITH WIDESPREAD READINGS IN THE LOWER/MID 40S. THIS DRIER AIRMASS (MIXING RATIOS BELOW 8 G/KG) HAS ADVECTED NORTHEAST BEGINNING TO MIX AND SCOUR HIGHER BOUNDARY LAYER MOISTURE OUT OF CNTRL ARIZONA.

AS SUCH...DEEP CONVECTION HAS BEEN PRIMARILY TIED TO TERRAIN FEATURES NORTH AND EAST OF PHOENIX...WITH STRONG STEERING FLOW PUSHING DEBRIS CLOUDS/ANVILS WELL TO THE EAST. GIVEN THE LONG AWAITED INTRODUCTION OF THIS DRIER AIRMASS UNSUPPORTIVE FOR ORGANIZED STORMS...HAVE CUT POPS THROUGH THIS EVENING TOWARDS JUST THE PERIPHERY OF THE FORECAST AREA...WITH MINIMAL CHANCES OF CONVECTION IMPACTING LOWER DESERT LOCATIONS.

WEDNESDAY THROUGH FRIDAY...

AS THE UPPER LOW CENTER APPROACHES AND MOVES OVER CNTRL/SRN CALIFORNIA...UPPER LEVEL WINDS MAY BACK TO A MORE SOUTHERLY DIRECTION (ESPECIALLY THURSDAY) TEMPORARILY INCREASING MOISTURE OVER SOUTHEAST ARIZONA...WITH A VERY SHARP DROP OFF INTO CENTRAL ARIZONA. A VORT LOBE AND JET SEGMENT WILL SWING THROUGH SOUTHEAST CALIFORNIA AND WESTERN ARIZONA THURSDAY...BRUSHING EASTERN ARIZONA AND THE MIDDLE LEVEL MOISTURE PLUME. ASSOCIATED DYNAMICAL FORCING LOOKS TO BE LESS THAN ROBUST OVER THE AREA WITH THE JET AXIS REMAINING TO THE WEST. HOWEVER...NUDGED UP THE POPS OVER ZONE 24 AS EVEN SUBTLE INFLUENCES CAN MAKE A DIFFERENCE THIS TIME OF YEAR. THE LOW QUICKLY SHIFTS OFF AND WEAKENS LATE IN THE WEEK...BUT WILL BE REPLACED BY RENEWED TROUGHING AND ANOMALOUSLY STRONG SOUTHWEST FLOW.

WITH H5 HEIGHTS FALLING INTO A 576-582DM RANGE LATER IN THE WEEK AND 1000-850MB THICKNESSES ONLY TOUCHING 143DM...HIGH TEMPERATURES WILL FALL INTO A BELOW NORMAL CATEGORY (BARELY ECLIPSING THE 100F THRESHOLD AT LOWER ELEVATIONS). CONCURRENTLY...WITH DEWPOINT/WETBULB TEMPERATURES SUBSTANTIALLY LOWER THAN IS TYPICAL FOR THE MIDDLE OF THE MONSOON SEASON...OVERNIGHT LOWS WILL ALSO FALL BELOW NORMAL LEADING TO VERY COMFORTABLE WEATHER FOR MID JULY. IN FACT...THE ENTIRE PATTERN AND ATMOSPHERIC THERMAL PROFILES ARE MORE REMINISCENT OF MID MAY VERSUS JULY.

SATURDAY THROUGH MONDAY...

MODELS CONTINUE TO DEPICT A WESTWARD EXPANSION OF THE HIGH CENTERED

July 8, 2015 Exceptional Event, Imperial County

Appendix A - Supplemental

TO OUR EAST WITH MOISTURE IMPROVING OVER THE LOWER DESERTS...AS SWLY FLOW LIFTS NORTH. THE GFS CONTINUES TO BE MORE GENEROUS WITH THE MOIST ADVECTION THAN THE ECMWF...LIKELY DUE IN PART TO MORE OF A SOUTHERLY FLOW COMPONENT AND DEEPER COASTAL TROUGHING DEPICTED BY THE GFS. ACCORDINGLY...IT ALSO SHOWS STRONGER WINDS ALOFT OVER OUR FORECAST AREA. THE OPERATIONAL GFS SHIFTS THE TROUGH NORTHEASTWARD SUNDAY WITH A JET STREAK MOVING INTO THE GREAT BASIN...PLACING THE ENTRANCE REGION BRIEFLY OVER OUR FORECAST AREA. TAKING A CONSERVATIVE APPROACH DUE TO INHERENT UNCERTAINTIES...ONLY SLIGHT CHANCE POPS OVER THE SOUTH-CENTRAL DESERTS ARE ADVERTISED SUNDAY (WHICH IS AN WESTWARD EXPANSION COMPARED TO PREVIOUS FORECASTS).

THERE IS AN EVEN GREATER DIFFERENCE BETWEEN GFS AND ECMWF MOISTURE PROFILES ON MONDAY...AS THE ECMWF HOLDS ONTO THE WEST COAST TROUGHING NUDGING IT FURTHER EAST AND YIELDING ADDITIONAL DRYING. THE GFS MEANWHILE EXPANDS THE HIGH FURTHER WEST FOR A BIT OF ADDITIONAL WARMING ALOFT. BOTH OF THOSE SCENARIOS...ESPECIALLY ECMWF...COULD HAVE A NEGATIVE IMPACT ON STORM POTENTIAL AND SO PULLED BACK POPS FROM THE LOWER ELEVATIONS OF SOUTH-CENTRAL ARIZONA MONDAY.

&&

.AVIATION...
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...
EXPECTING A QUIET NICE ACROSS CENTRAL ARIZONA WITH WESTERLY FLOW SWITCHING TO E/SE AROUND 07-10Z. WINDS WILL HAVE MORE OF A SOUTHERLY TRAJECTORY TOMORROW /WEDNESDAY/ AFTERNOON AND WILL BE GUSTY AT TIMES. NO THUNDERSTORM ACTIVITY EXPECTED IN THE PHOENIX AREA.

SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...
NO AVIATION IMPACTS UNDER MOSTLY CLEAR SKIES THROUGH WEDNESDAY AFTERNOON. SFC WINDS COULD OCCASIONALLY INCLUDE HIGHER GUSTS LATE AFTERNOON/EARLY EVENING...THOUGH WILL RETAIN LOWER SPEEDS BY SUNRISE.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...
FRIDAY THROUGH TUESDAY...
THE FLOW PATTERN WILL TRANSITION FROM SOUTHWESTERLY AND UNFAVORABLE FOR EXTENSIVE MOISTURE AND STORMS DURING THE FIRST PART OF THE WEEKEND...TO MORE TRADITIONAL MONSOON SEASON SOUTHERLY EARLY NEXT WEEK. THUNDERSTORM CHANCES WILL MOSTLY BE LIMITED TO HIGHER TERRAIN LOCATIONS NORTH AND EAST OF PHOENIX...THOUGH COULD BEGIN MOVING WESTWARD NEXT WEEK. AFTERNOON HUMIDITY LEVELS IN A 10-20 PERCENT RANGE DURING THE WEEKEND WILL INCREASE TO A 15-25 PERCENT RANGE NEXT WEEK. OVERNIGHT RECOVERY WILL BE GOOD. DIURNALLY DRIVEN WINDS SPEEDS AND DIRECTIONS WILL PREDOMINATE MUCH OF THIS TIME...THOUGH STRONGER THAN USUAL AFTERNOON UPSLOPE GUSTINESS WILL STILL BE EVIDENT ACROSS MUCH OF THE DISTRICT.

&&

.SPOTTER INFORMATION STATEMENT...
SPOTTERS ARE ENCOURAGED TO REPORT ANY SIGNIFICANT WEATHER CONDITIONS ACCORDING TO STANDARD OPERATING PROCEDURES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

&&

\$\$

VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...INIGUEZ/MO/AJ

AVIATION...INIGUEZ/MO

FIRE WEATHER...MO

July 8, 2015 Exceptional Event, Imperial County

Appendix A - Supplemental

142
FXUS66 KSGX 080403
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
900 PM PDT TUE JUL 7 2015

.SYNOPSIS...

AN UNSEASONABLY DEEP TROUGH OF LOW PRESSURE OFF OF THE CENTRAL CALIFORNIA COAST WILL MOVE INLAND THROUGH THURSDAY. THE TROUGH WILL BRING COOLER WEATHER AND AN UNUSUALLY DEEP MARINE LAYER FOR EARLY JULY...DEEP ENOUGH FOR POCKETS OF LIGHT RAIN AND DRIZZLE WEST OF THE MOUNTAINS THE NEXT TWO NIGHTS. IT WILL BE WINDY IN THE MOUNTAINS AND DESERTS EACH AFTERNOON. THE TROUGH WILL MOVE EAST OF THE AREA THIS WEEKEND WITH WARMER WEATHER AND THE RETURN OF WEAK MONSOONAL FLOW EARLY NEXT WEEK.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

AN ANOMALOUSLY DEEP 572DM UPPER LOW 400 MILES WEST OF SFO THIS EVENING WILL BRING UNSEASONABLY COOL WEATHER TO SO-CAL THE NEXT TWO DAYS. TEMPERATURES WILL BE 5-15 DEGREES BELOW AVERAGE ON WEDNESDAY AND FROM 10-20 BELOW AVERAGE THURSDAY WHEN 500 MB HEIGHT ANOMALIES REACH 3-4 STANDARD DEVIATIONS BELOW NORMAL. RECORD LOW MAXIMUM TEMPERATURES WILL LIKELY BE BROKEN AT SEVERAL VALLEY...MOUNTAIN AND DESERT LOCALES.

THE MARINE LAYER WILL REMAIN UNUSUALLY DEEP FOR JULY...APPROACHING 4000 FEET THURSDAY. AREAS OF LIGHT RAIN AND DRIZZLE ARE AGAIN LIKELY WEST OF THE MOUNTAINS EACH NIGHT AND MORNING THROUGH FRIDAY. A SHORTWAVE ROUNDING THE BASE OF THE TROUGH ON THURSDAY MAY VERY WILL ENHANCE THE PRECIP POTENTIAL ACROSS SOUTHERN CALIFORNIA THURSDAY. CLEARING ON WEDNESDAY WILL BE SLOW AND SOMEWHAT LIMITED AT THE BEACHES. ON THURSDAY THERE WILL BE COOLING ALOFT BEHIND THE SHORTWAVE WITH A 3C TEMPERATURE DECREASE AT THE INVERSION HEIGHT. THIS COULD PROMOTE BETTER MIXING IF NOT FOR THE UNUSUALLY DEEP MARINE LAYER THAT WILL BE IN PLACE.

IT WILL BE WINDY IN THE MOUNTAINS AND DESERTS EACH AFTERNOON AND EVENING THROUGH FRIDAY WITH DOUBLE DIGIT ONSHORE PRESSURE GRADIENTS TO THE DESERTS AND 20-25KT 850 MB WINDS. WIND GUSTS IN THE MTNS AND DESERTS WILL REACH 30 TO 40 MPH IN THE WIND PRONE AREAS LIKE THE SAN GORGONIO PASS AND ON THE DESERT SLOPES WITH A FEW GUSTS ABOVE 50 MPH.

SATURDAY THROUGH MONDAY...THE UPPER TROUGH SLOWLY DRIFTS EAST OF THE AREA THROUGH THE PERIOD WITH INCREASING HEIGHTS...GRADUAL WARMING AND A SHALLOWER MARINE LAYER. HIGH PRESSURE BUILDING IN FROM THE SOUTHEAST WILL BRING WEAK MONSOONAL FLOW BACK INTO THE SOUTHWEST EARLY NEXT WEEK.

&&

.AVIATION... 080400Z...COAST/VALLEYS...BKN/OVC STRATUS WILL AGAIN SPREAD THROUGH THE VALLEYS AND TO THE LOWER COASTAL SLOPES BY 08Z WITH BASES MOSTLY 1300-2000 FT MSL WITH TOPS TO 3000-3500 FT MSL. HIGHER TERRAIN WILL BE OBSCURED. AREAS OF VIS 3-5 MI IN MIST/DRIZZLE WILL OCCUR MAINLY 12Z-18Z WED. CLEARING WILL BE SLOW WED...GENERALLY 16-19Z IN THE VALLEYS AND 19-22Z IN COASTAL AREAS WITH SOME AREAS NEAR THE COAST REMAINING BKN/OVC THROUGH THE AFTERNOON. KSN/KCRQ WILL LIKELY ONLY BE SCT FOR A SHORT TIME. STRATUS WILL SPREAD INLAND AGAIN EARLY WED EVENING WITH SLIGHTLY HIGHER BASES AND TOPS.

MTNS/DESERTS...MOSTLY CLEAR WITH UNRESTRICTED VIS WILL PREVAIL THROUGH WED NIGHT. AREAS OF SURFACE WINDS FROM THE WEST 15-25 KT GUSTS 35 KT WILL OCCUR THROUGH AND EAST OF SAN GORGONIO PASS AND THE DESERT MOUNTAIN SLOPES THROUGH 12Z WED...THEN AGAIN AFTER 22Z WED THROUGH WED NIGHT.

&&

.MARINE... 900 PM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH SUNDAY.

July 8, 2015 Exceptional Event, Imperial County

Appendix A - Supplemental

&&

.SKYWARN...
SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE
ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...
CA...NONE.
PZ...NONE.

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PUBLIC...MOEDE
AVIATION/MARINE...MAXWELL

July 8, 2015 Exceptional Event, Imperial County

Appendix A - Supplemental

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271
FXUS66 KSGX 081037
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
337 AM PDT WED JUL 8 2015

.SYNOPSIS...

AN UNSEASONABLY DEEP TROUGH OF LOW PRESSURE OFF THE CENTRAL CALIFORNIA COAST WILL MOVE INLAND THROUGH THURSDAY. THE TROUGH WILL BRING COOL WEATHER AND AN UNUSUALLY DEEP MARINE LAYER FOR EARLY JULY...DEEP ENOUGH FOR POCKETS OF LIGHT RAIN AND DRIZZLE WEST OF THE MOUNTAINS DURING THE NEXT TWO LATE NIGHTS AND

MORNINGS. IT WILL ALSO BE WINDY IN THE MOUNTAINS AND DESERTS EACH AFTERNOON. THE TROUGH WILL MOVE EAST OF THE AREA THIS WEEKEND...WITH WARMER WEATHER AND THE RETURN OF WEAK MONSOONAL FLOW EARLY NEXT WEEK.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

A SMALL BUT POTENT UPPER LOW PRESSURE WAS LOCATED JUST OFF THE COAST FROM MONTEREY CALIFORNIA EARLY THIS MORNING. THIS FEATURE WILL GENERALLY MOVE EAST THROUGH THURSDAY AND ACROSS THE MIDDLE OF THE STATE. THIS WILL INCREASE AND DEEPEN THE MARINE LAYER ACROSS Socal THROUGH WEDNESDAY AND POSSIBLY INTO THURSDAY. THE LOW IS VERY STRONG FOR THIS TIME OF THE YEAR BUT SENSIBLE WEATHER WILL LIKELY BE MINIMAL FOR Socal THEREFORE WE HAVE NOT INCLUDED ANY MEASURABLE RAIN AT THIS TIME. AREAS OF DRIZZLE AND LIGHT RAIN WILL BE POSSIBLE LATE NIGHT AND DURING THE MORNINGS THROUGH THURSDAY MORNING WEST OF THE MOUNTAINS. LOW CLOUDS WILL PUSH THROUGH THE VALLEYS AND BANK UP ALONG THE WESTERN SLOPES OF THE MOUNTAINS. TEMPERATURES WILL BE BELOW NORMAL IN MOST LOCATIONS

THROUGH THURSDAY AS A RESULT OF THE LOW...WITH STRONG WINDS LIKELY THROUGH THE WEST TO EAST ORIENTED PASSES SUCH AS SAN GORGONIO AND THE I-8 PASS. GUSTS TO AROUND 60 MPH WILL BE LIKELY LATE THIS AFTERNOON AND INTO THE EVENING AND AGAIN THURSDAY AFTERNOON...THEREFORE HAVE ISSUED A WIND ADVISORY FOR THOSE LOCATIONS.

ONCE THE LOW PASSES JUST TO THE NORTH OF OUR REGION...FLOW WILL TURN MORE SOUTHWESTERLY THROUGH THIS WEEKEND...THEN FOR EARLY NEXT WEEK WE SHOULD SEE A RETURN TO SOUTH-SOUTHEASTERLY MONSOONAL RETURN FLOW. MOISTURE PARAMETERS APPEAR TO NUDGE UPWARD SUNDAY AFTERNOON THROUGH TUESDAY OR WEDNESDAY...HOWEVER IT DOESN'T APPEAR TO BE A STRONG RETURN AND JUST A GLANCING BLOW THEREFORE HAVE NOT ADDED ANY POPS AT THIS TIME BUT HAVE BUMPED THE CLOUD COVER UP A BIT. FLOW LOOKS TO TURN MORE SOUTHWESTERLY BY MID NEXT WEEK AND BRING AN END TO THE MONSOONAL RETURN FLOW.

&&

.AVIATION...

08930Z...COAST/VALLEYS...LOW CLOUDS...WITH BASES 1500-2700 MSL AND TOPS TO 3500 FT MSL...WILL CONTINUE TO FILL IN W OF THE MTNS THIS MORNING. -DZ IS POSSIBLE AROUND AND A FEW HOURS AFTER SUNRISE. RECENT AIRCRAFT SOUNDINGS SHOWED A 9 DEGREE C MARINE LAYER INVERSION. STRATUS WILL OBSCURE HIGHER TERRAIN AT TIMES. LOW CLOUDS WILL SLOWLY CLEAR OVER MOST VALLEY LOCATIONS LATE THIS MORNING...BUT WILL LIKELY LINGER ALONG THE COAST THROUGHOUT THE DAY. LOW CLOUDS WILL PUSH BACK INLAND AGAIN EARLY THIS EVENING...WITH SLIGHTLY HIGHER TOPS AND BASES. FORECASTER CONFIDENCE IN STRATUS FORECAST IS MODERATE.

MTNS/DESERTS...MOSTLY SKC WITH UNRESTRICTED VIS THROUGH THU MORNING. AREAS OF W SFC WINDS 15-25 KT GUSTS 35 KT THROUGH AND E OF SAN GORGONIO PASS AND DESERT MOUNTAIN SLOPES THROUGH EARLY THIS MORNING...THEN AGAIN THIS AFTN THROUGH TONIGHT.

&&

.MARINE...

230 AM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH SUNDAY.

July 8, 2015 Exceptional Event, Imperial County

Appendix A - Supplemental

&&
.SKYWARN...
SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE
ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&
.SGX WATCHES/WARNINGS/ADVISORIES...
CA...WIND ADVISORY FROM 2 PM THIS AFTERNOON TO 11 PM THURSDAY FOR
SAN DIEGO COUNTY DESERTS-SAN GORGONIO NEAR BANNING.
PZ...NONE.

&&
\$\$

PUBLIC...BROTHERTON
AVIATION/MARINE...JJT

Enter search term

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NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
354 AM PDT WED JUL 8 2015

...STRONG WINDS LIKELY LATE TODAY AND AGAIN THURSDAY THROUGH THE
PASSES AND INTO THE DESERTS...

.STRONG ONSHORE FLOW WILL GENERATE STRONG AND GUSTY WINDS AT
TIMES.

CAZ062-065-082030-
/O.NEW.KSGX.WI.Y.0023.150708T2100Z-150710T0600Z/
SAN DIEGO COUNTY DESERTS-SAN GORGONIO PASS NEAR BANNING-
354 AM PDT WED JUL 8 2015

...WIND ADVISORY IN EFFECT FROM 2 PM THIS AFTERNOON TO 11 PM PDT
THURSDAY...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT FROM 2 PM THIS AFTERNOON TO 11 PM
PDT THURSDAY.

* WINDS...WEST WINDS WITH GUSTS TO 60 MPH AT TIMES. STRONGEST
WINDS THIS AFTERNOON AND EVENING AND AGAIN THURSDAY AFTERNOON
AND EVENING.

* LOCATION...SAN GORGONIO PASS ALONG INTERSTATE 10 AND INTERSTATE
8 THROUGH THE SAN DIEGO COUNTY MOUNTAINS AND DESERTS.

* VISIBILITY...BLOWING DUST AND SAND COULD REDUCE VISIBILITY TO
ONLY A FEW MILES AT TIMES IN THE DESERTS.

* IMPACTS...HIGH PROFILE VEHICLES COULD HAVE DIFFICULTY NAVIGATING
ROADS WITH STRONG CROSS WINDS.

* OUTLOOK...STRONG WINDS WILL GRADUALLY SUBSIDE LATE THURSDAY
NIGHT INTO FRIDAY MORNING.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OVER 50 MPH ARE EXPECTED. WINDS
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH
PROFILE VEHICLES. USE EXTRA CAUTION.

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JMB

Enter search term

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613
FXUS65 KPSR 081213
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
513 AM MST WED JUL 8 2015

.UPDATE...UPDATED AVIATION DISCUSSION.

&&

.SYNOPSIS...
THUNDERSTORM CHANCES WILL BE SIGNIFICANTLY LOWER THAN USUAL FOR THE MIDDLE OF THE MONSOON SEASON...AND PRIMARILY RELEGATED TO THE MOUNTAINS OF NORTHERN AND EASTERN ARIZONA THE NEXT SEVERAL DAYS. DESPITE THE LACK OF STORM ACTIVITY...TEMPERATURES WILL REMAIN NEAR TO SLIGHTLY BELOW NORMAL. THIS WEEKEND AND EARLY NEXT WEEK...HIGH PRESSURE WILL STRENGTHEN AGAIN LEADING TO WARMER TEMPERATURES. THERE MAY ALSO BE AN INCREASE IN STORM ACTIVITY...MAINLY OVER EASTERN ARIZONA.

&&

.DISCUSSION...
TODAY...
AN UPPER LOW CENTERED OFF THE NORTHERN CALIFORNIA COAST HAS ADVECTED DRIER AIR INTO THE REGION AND THIS IS EVIDENT IN PRECIPITABLE WATER TRENDS OVER THE PAST 24 HOURS AS WELL AS SURFACE DEW POINTS. THE LOW IS ADVERTISED TO NUDGE EASTWARD A BIT TODAY AND A SUBTLE PERTURBATION WILL MOVE ACROSS THE DESERTS...MAINLY OVER VEF CWA. BOTH NAM AND GFS DEPICT SOME IMPROVEMENT IN MOISTURE AVAILABILITY TODAY COMPARED TO TUESDAY BUT CAPE WILL BE LIMITED TO EASTERN ARIZONA WITH GILA COUNTY BEING ONLY AREA IN OUR CWA WITH ANY POPS. LOCAL AND NATIONAL HI-RES MODELS AGREE. MAX TEMPS WILL BE A BIT COOLER OVER SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA.

THURSDAY AND FRIDAY...
THE LOW BECOMES CENTERED OVER CALIFORNIA THURSDAY WITH THE MAIN VORT MAX OF THE SYSTEM SWINGING THROUGH THE MOHAVE DESERT REGION DURING THE AFTERNOON AND EVENING. NICE BULLSEYE OF Q FORCING WITH IT BUT AT BEST IT ONLY BRUSHES EASTERN ARIZONA WHERE THE BETTER MOISTURE IS. TO VARYING DEGREES...MODELS INDICATE A MOISTURE INCREASE OVER SOUTHEAST ARIZONA THURSDAY IN RESPONSE TO THE LOW. THUS POPS OVER OUR EASTERNMOST AREAS ARE A BIT HIGHER. THE LOW WILL PROVIDE FOR COOLER TEMPERATURES THURSDAY...ESPECIALLY WESTERN PORTIONS OF OUR FORECAST AREA. IN FACT...A NUMBER OF LOCATIONS OVER SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA ARE ANTICIPATED TO REMAIN JUST BELOW 100 DEGREES. TEMPS OVER SOUTH-CENTRAL ARIZONA INCLUDING THE PHOENIX AREA WILL BE SLIGHTLY WARMER BUT STILL BELOW NORMAL. AS THE FIRST LOW QUICKLY MOVES NORTHEASTWARD AND WEAKENS...TROUING NEAR THE CALIFORNIA COAST REDEVELOPS FRIDAY. THUS ANTICIPATE LITTLE CHANGE IN TEMPERATURES BUT WITH EVEN LESS STORM ACTIVITY.

SATURDAY AND SUNDAY...
HIGH PRESSURE REGIONS OVER NORTHERN MEXICO AS WELL AS THE SOUTHEAST STATES IS PROGGED TO CONSOLIDATE AND BECOME CENTERED OVER WEST TEXAS THIS WEEKEND. THERE CONTINUE TO BE DIFFERENCES IN THE DETAILS BETWEEN THE GFS AND ECMWF. THE GFS HAS DEEPER SOUTHERLY FLOW AND ADVECTS MORE MOISTURE INTO THE REGION THAN THE ECMWF. EVEN TAKING THE GFS AT FACE VALUE...1000-700MB MEAN MIXING RATIOS LOOK BORDERLINE AND THIS IS REFLECTED IN MODEST FORECAST CAPE. WOULD ANTICIPATE THAT STORM ACTIVITY OVER SOUTHEAST ARIZONA WILL IMPINGE UPON SOUTH-CENTRAL ARIZONA THIS WEEKEND. HOWEVER...IT LOOKS LIKE A SITUATION WHERE STORMS WILL STRUGGLE TO SURVIVE OVER THE LOWER DESERTS AND BLOWING DUST WOULD BE THE MOST LIKELY IMPACT. OF NOTE...THE GFS BRINGS A PERTURBATION/VORT MAX THROUGH THE AREA ON SUNDAY WHICH WOULD SUGGEST A BETTER CHANCE OF STORMS SUNDAY VERSUS SATURDAY BUT CANNOT PUT A LOT OF STOCK IN THAT SCENARIO THIS FAR OUT. WITH THE RIDGE STRENGTHENING...TEMPS BEGIN A WARMING TREND TO NEAR NORMAL.

MONDAY AND TUESDAY...
THE GFS CONTINUES TO DEPICT MORE OF A SOUTHERLY COMPONENT TO THE FLOW FOR MONDAY THAN THE ECMWF...AND THUS MORE MOISTURE...BUT IT STILL LOOKS BORDERLINE. THE GFS THEN SHOWS SOME DECLINE IN MOISTURE TUESDAY AS THE COASTAL TROUING MOVES ASHORE AND THE RIDGE SAGS SOUTHWARD A BIT. STILL NOT AS DRY AS ECMWF BUT ENOUGH SUCH THAT STORM ACTIVITY WOULD BE MEAGER. FURTHER WARMING IS EXPECTED EARLY NEXT WEEK WITH HIGHS AT MANY OF THE LOW DESERT LOCATIONS REACHING THE 110 DEGREE MARK.

&&

.AVIATION...
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...
BREEZY CONDITIONS WILL DEVELOP THIS AFTERNOON IN THE PHOENIX AREA.
SOUTHWESTERLY GUSTS MAY REACH AS HIGH AS 20-25 KT BY 20Z. IMPROVING
CONDITIONS EXPECTED THIS EVENING AS WINDS SUBSIDE. THUNDERSTORMS WILL
BE ISOLATED IN COVERAGE THIS AFTERNOON AND WILL LIKELY REMAIN
CONFINED TO THE HIGHER TERRAIN WELL NORTH AND EAST OF PHOENIX.

SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND
KBLH...
WINDS WILL INCREASE LATE THIS AFTERNOON...PARTICULARLY AT
KIPL...WHERE GUSTS MAY REACH AS HIGH AS 25-30 KT. WINDS WILL SUBSIDE
SOMEWHAT AFTER SUNSET...HOWEVER SUSTAINED WINDS ABOVE 10 KT WILL
PERSIST OVERNIGHT.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...
FRIDAY THROUGH TUESDAY...
THE FLOW PATTERN WILL TRANSITION FROM SOUTHWESTERLY AND UNFAVORABLE
FOR EXTENSIVE MOISTURE AND STORMS DURING THE FIRST PART OF THE
WEEKEND...TO MORE TRADITIONAL MONSOON SEASON SOUTHERLY EARLY NEXT
WEEK. THUNDERSTORM CHANCES WILL MOSTLY BE LIMITED TO HIGHER TERRAIN
LOCATIONS NORTH AND EAST OF PHOENIX...THOUGH COULD BEGIN MOVING
WESTWARD NEXT WEEK. AFTERNOON HUMIDITY LEVELS IN A 10-20 PERCENT
RANGE DURING THE WEEKEND WILL INCREASE TO A 15-25 PERCENT RANGE NEXT
WEEK. OVERNIGHT RECOVERY WILL BE GOOD. DIURNALLY DRIVEN WINDS SPEEDS
AND DIRECTIONS WILL PREDOMINATE MUCH OF THIS TIME...THOUGH STRONGER
THAN USUAL AFTERNOON UPSLOPE GUSTINESS WILL STILL BE EVIDENT ACROSS
MUCH OF THE DISTRICT.

&&

.SPOTTER INFORMATION STATEMENT...
SPOTTERS ARE ENCOURAGED TO REPORT ANY SIGNIFICANT WEATHER CONDITIONS
ACCORDING TO STANDARD OPERATING PROCEDURES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...
AZ...NONE.
CA...NONE.

&&

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...AJ
AVIATION...HIRSCH
FIRE WEATHER...18

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695				
NWUS56 KSGX 081526				
LSRSGX				
PRELIMINARY LOCAL STORM REPORT				
NATIONAL WEATHER SERVICE SAN DIEGO CA				
825 AM PDT WED JUL 8 2015				
...TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...	
...DATE...	...MAG....	..COUNTY LOCATION..ST..	...SOURCE....	
..REMARKS..				
1050 PM	NON-TSTM WND GST 7 ENE CABAZON	33.95N 116.66W		
07/07/2015	M54 MPH RIVERSIDE	CA	MESONET	
MESONET STATION WHITEWATER RAWS /WWAC1/				
&&				
\$\$				
SHARRISO				

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July 8, 2015 Exceptional Event, Imperial County

Appendix A - Supplemental

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610
WMUS75 KPSR 081544
NPWPSR

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PHOENIX AZ
844 AM MST WED JUL 8 2015

CAZ033-090000-
/O.NEW.KPSR.WI.Y.0009.150708T2200Z-150709T1400Z/
IMPERIAL COUNTY-
INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO...
GLAMIS...IMPERIAL...THE SALTON SEA
844 AM MST WED JUL 8 2015

...WIND ADVISORY IN EFFECT FROM 3 PM THIS AFTERNOON TO 7 AM PDT
THURSDAY...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT FROM 3 PM THIS AFTERNOON TO 7 AM
PDT THURSDAY.

* AFFECTED AREA...FAR SOUTHWEST IMPERIAL COUNTY...INCLUDING
OCOTILLO...PORTIONS OF INTERSTATE 10 FROM NEAR DIXIELAND WEST
TOWARD SAN DIEGO COUNTY...AND SALTON CITY INCLUDING NEARBY PORTIONS
OF HIGHWAY 86.

* TIMING...FROM 3 PM THIS AFTERNOON TO 7 AM TOMORROW MORNING.

* WINDS...SUSTAINED WINDS FROM THE WEST OF 20 TO 30 MPH WITH GUSTS UP
TO 45 MPH...LOCALLY HIGHER NEAR TERRAIN-CHANNELED AREAS.

* IMPACTS...DIFFICULT DRIVING CONDITIONS ESPECIALLY ALONG NORTH-SOUTH
ROADS. BLOWING DUST MAY ALSO DEVELOP...REDUCING VISIBILITY AT
TIMES.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN
30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND
58 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY
FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
CAUTION.

&&

\$\$

INIGUEZ

879
FXUS66 KSGX 081610
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
910 AM PDT WED JUL 8 2015

SYNOPSIS

A DEEP TROUGH OF LOW PRESSURE OFF THE CENTRAL CALIFORNIA COAST WILL MOVE INLAND THROUGH THURSDAY. THE TROUGH WILL BRING COOL WEATHER AND A DEEP MARINE LAYER WHICH COULD BRING DRIZZLE TO AREAS WEST OF THE MOUNTAINS DURING THE LATE NIGHT AND MORNING HOURS. IT WILL ALSO PRODUCE WINDY CONDITIONS IN THE MOUNTAINS AND DESERTS...STRONGEST DURING THE EVENING THROUGH EARLY MORNING HOURS. UPPER LEVEL HIGH PRESSURE WILL BUILD OVER THE AREA STARTING FRIDAY...WITH A WARMING TREND FOR FRIDAY THROUGH EARLY NEXT WEEK...ALONG WITH NIGHT AND MORNING CLOUDS AND FOG FOR THE COAST AND PORTIONS OF THE VALLEYS.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

DEEP MARINE LAYER IN PLACE THIS MORNING...AS VISIBLE SATELLITE SHOWS STRATUS THROUGH THE COAST...VALLEYS AND INTO SOME OF THE MOUNTAIN PASSES. THE 12Z MIRAMAR SOUNDING AND AIRCRAFT SOUNDINGS FROM AROUND THE AREA SHOW A MARINE LAYER DEPTH OF 3000 TO 4000 FEET ABOVE MEAN SEA LEVEL. HOWEVER...THE CLOUD LAYER IS NOT AS THICK AS IT HAS BEEN THE PAST FEW DAYS...SO THERE HAVE NOT BEEN AS MANY REPORTS OF DRIZZLE THIS MORNING...ALTHOUGH A FEW SPOTS IN THE VALLEYS REPORTED 0.01 INCHES OF RAINFALL ACCUMULATION. THE MARINE LAYER INVERSION IS WEAKER THAN IT HAS BEEN...AT ONLY AROUND 5 DEG C. THE THINNER CLOUD LAYER AND THE WEAKER INVERSION MAY RESULT IN SLIGHTLY BETTER CLEARING AT THE COAST THAN WE HAVE SEEN THE PAST FEW DAYS. ON THE OTHER HAND...WIND OBSERVATIONS AT THE COAST SHOW THAT A WEAK EDDY HAS DEVELOPED...AND THE LOCAL WRF STILL DOES NOT INDICATE THAT THERE WILL BE MUCH CLEARING AT THE COAST TODAY. FOR NOW...WILL STICK WITH THE FORECAST OF THE BEACHES AND IMMEDIATE COASTAL AREAS REMAINING MOSTLY CLOUDY TODAY.

WATER VAPOR SATELLITE SHOWS A CLOSED LOW OFF THE CENTRAL CALIFORNIA COAST. THIS LOW WILL MOVE INLAND TODAY THROUGH THURSDAY...RESULTING IN CONTINUED COOLING AND DEEPENING OF THE MARINE LAYER. TEMPERATURES TODAY LOOK TO BE 10-20 DEGREES BELOW NORMAL IN THE VALLEYS AND MOUNTAINS...AND SEVERAL DEGREES BELOW NORMAL ELSEWHERE. WRF CROSS-SECTIONS INDICATE THAT THE MARINE LAYER WILL DEEPEN TO NEAR 5000 FEET TONIGHT...WITH STRATUS ONCE AGAIN FILLING IN OVER THE COAST AND VALLEYS...AND ALSO THE LOWER COASTAL SLOPES AND MOUNTAIN PASSES. WITH THE DEEP MARINE LAYER AND SOME NEARBY LIFT PROVIDED BY THE TROUGH...EXPECT AN INCREASE IN MARINE LAYER DRIZZLE FOR LATE TONIGHT THROUGH THURSDAY MORNING. SOME OF THE MODELS INDICATE THIS POSSIBILITY...WITH SOME BLIPS OF 0.01 INCHES OF QPF SHOWING UP IN THE COASTAL AND VALLEY AREAS.

THE TROUGH IS ALSO RESULTING IN STRONGER ONSHORE PRESSURE GRADIENTS...WITH SAN DIEGO TO LAS VEGAS GRADIENTS SHOWING 7.1 MB CURRENTLY...WHEREAS THEY WERE 5.1 MB 24 HOURS AGO. AS A RESULT...THERE WERE 54 MPH WIND GUSTS AT EDOM HILL AND WHITETWATER IN THE NORTHERN COACHELLA VALLEY OVERNIGHT. THE GRADIENTS SHOULD STRENGTHEN FURTHER TONIGHT...AT AROUND 10-13 MB FROM SAN DIEGO TO LAS VEGAS...DEPENDING ON WHICH MODEL YOU LOOK AT. CANSAC WRF ALSO SHOWS SOME PRETTY GOOD WINDS FOR THE LOWER DESERTS...PARTICULARLY THROUGH AND BELOW THE MOUNTAIN PASSES...FOR TONIGHT INTO THURSDAY MORNING. A WIND ADVISORY FOR THE SAN GORGONIO/BANNING PASS AREA AND THE SAN DIEGO COUNTY DESERTS GOES INTO EFFECT AT 2 PM THIS AFTERNOON. GUSTS OF 50-55 MPH ARE LIKELY...WITH ISOLATED 60 MPH GUSTS. WITH THE TROUGH AND STRONG ONSHORE FLOW...MORE COOLING WILL OCCUR TOMORROW.

A WARMING TREND WILL START ON FRIDAY...AS THE TROUGH WEAKENS AND MOVES TO THE NORTH...AND RIDGING TO THE EAST BUILDS OVER THE AREA. THE RIDGE WILL CONTINUE TO BUILD THROUGH NEXT MONDAY...WITH TEMPERATURES RISING EACH DAY...EVENTUALLY REACHING BACK TO NEAR NORMAL BY MONDAY. THE MARINE LAYER WILL ALSO BECOME SHALLOWER...AND WE MAY SEE BETTER AFTERNOON CLEARING...ALTHOUGH WITH THE WARMING ALOFT THE MARINE LAYER INVERSION MAY BECOME STRONG ENOUGH TO KEEP THE BEACHES CLOUDY DURING SOME OF THE DAYS.

July 8, 2015 Exceptional Event, Imperial County

Appendix A - Supplemental

THE 06Z QFS INDICATES THE RIDGE MAY BE POSITIONED SUCH THAT SOUTHERLY FLOW BRINGS IN SOME MONSOONAL MOISTURE BY SUNDAY...WHILE THE 00Z ECMWF AND CMC KEEP US IN DRY SOUTHWESTERLY FLOW. THE FORECAST IS DRY FOR THAT PERIOD CURRENTLY...BUT WILL SEE WHAT THE 12Z RUNS SHOW BEFORE MAKING ANY ADJUSTMENTS TO THE POPS.

&&

.AVIATION...
081530Z...COAST/VALLEYS...LOW CLOUDS BASED 1800-2400 MSL...TOPS TO NEAR 3500 FT MSL...AND A 6 DEGREE C MARINE LAYER INVERSION THIS MORNING. HIGHER COASTAL TERRAIN OBSCURED DURING THE MORNING. LOW CLOUDS WILL CLEAR BACK TO THE COASTAL STRIP THIS AFTERNOON...BUT THE RISK OF LOW CLOUDS REMAINING AT THE COASTAL AIRFIELDS KCRQ SOUTH MUCH OF THE AFTERNOON IS GOOD...SO MODERATE CONFIDENCE IN THE AFTERNOON BKN LOW CLOUDS AT KCRQ AND KSAN TODAY. THE LOW CLOUDS WILL PUSH BACK INLAND AGAIN EARLY THIS EVENING...AFTER ABOUT 09/00Z WITH SLIGHTLY HIGHER TOPS AND BASES...AND OBSCURING HIGHER COASTAL TERRAIN LATE THIS EVENING INTO THURSDAY MORNING.

MTNS/DESERTS...MOSTLY CLEAR WITH UNRESTRICTED VIS THROUGH THU MORNING. AREAS OF W SFC WINDS 15-25 KT WITH GUSTS AROUND 35 KT ACROSS RIDGES...THROUGH AND BELOW PASSES...AND ON THE DESERT SLOPES...MAINLY THIS AFTERNOON AND TONIGHT.

&&

.MARINE...
830 AM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH SUNDAY.

&&

.SKYWARN...
SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...
CA...WIND ADVISORY FROM 2 PM THIS AFTERNOON TO 11 PM PDT THURSDAY FOR SAN DIEGO COUNTY DESERTS-SAN GORGONIO PASS NEAR BANNING.

PZ...NONE.

&&

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PUBLIC...HARRISON
AVIATION/MARINE...SMALL

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390
WMUS76 KSGX 081939
NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
1239 PM PDT WED JUL 8 2015

...STRONG WINDS LIKELY THROUGH THURSDAY EVENING FOR THE MOUNTAIN
PASSES AND INTO THE LOWER DESERTS...

.STRONG ONSHORE FLOW WILL GENERATE STRONG AND GUSTY WINDS...MAINLY
DURING THE EVENING AND EARLY MORNING HOURS...FOR THE NORTHERN
COACHELLA VALLEY NEAR SAN GORGONIO PASS...AND THE WIND PRONE
LOCATIONS IN THE SAN DIEGO COUNTY DESERTS...SUCH AS INTERSTATE 8.
WINDS WILL WEAKEN OVERNIGHT THURSDAY.

CAZ062-065-090500-
/O.EXT.KSGX.WI.Y.0023.150708T2000Z-150710T0600Z/
SAN DIEGO COUNTY DESERTS-SAN GORGONIO PASS NEAR BANNING-
1239 PM PDT WED JUL 8 2015

...WIND ADVISORY NOW IN EFFECT UNTIL 11 PM PDT THURSDAY...

- * WINDS...WEST WINDS 20 TO 30 MPH WITH GUSTS TO 50 MPH AND
ISOLATED GUSTS TO 60 MPH AT TIMES.
- * TIMING...WINDS INCREASING THIS AFTERNOON...WITH STRONGEST WINDS
OCCURRING THIS EVENING THROUGH EARLY THURSDAY MORNING...AND ALSO
THURSDAY EVENING.
- * LOCATION...THROUGH AND BELOW THE SAN GORGONIO PASS ALONG AND
NORTH OF INTERSTATE 10. WIND-PRONE AREAS OF THE SAN DIEGO COUNTY
DESERTS...INCLUDING INTERSTATE 8.
- * VISIBILITY...BLOWING DUST AND SAND COULD REDUCE VISIBILITY TO 1
MILE OR LESS AT TIMES IN THE DESERTS.
- * IMPACTS...HIGH PROFILE VEHICLES COULD HAVE DIFFICULTY
NAVIGATING ROADS WITH STRONG CROSS WINDS.
- * OUTLOOK...STRONG WINDS WILL GRADUALLY SUBSIDE LATE THURSDAY
NIGHT INTO FRIDAY MORNING.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WIND GUSTS OF 50 MPH ARE EXPECTED.
WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH
PROFILE VEHICLES. USE EXTRA CAUTION.

&&

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HARRISON

National Weather Service Raw Text Product

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983
WMUS75 KPSR 082233
NPWPSR

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PHOENIX AZ
333 PM MST WED JUL 8 2015

CAZ033-091400-
/O.CON.KPSR.WI.Y.0009.000000T0000Z-150709T1400Z/
IMPERIAL COUNTY-
INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO...
GLAMIS...IMPERIAL...THE SALTON SEA
333 PM MST WED JUL 8 2015

...WIND ADVISORY REMAINS IN EFFECT UNTIL 7 AM PDT THURSDAY...

* AFFECTED AREA...FAR SOUTHWEST IMPERIAL COUNTY...INCLUDING
OCOTILLO...PORTIONS OF INTERSTATE 8 FROM NEAR DIXIELAND WEST
TOWARD SAN DIEGO COUNTY...AND SALTON CITY INCLUDING NEARBY
PORTIONS OF HIGHWAY 86.

* TIMING...FROM 3 PM THIS AFTERNOON TO 7 AM TOMORROW MORNING.

* WINDS...SUSTAINED WINDS FROM THE WEST OF 20 TO 30 MPH WITH
GUSTS UP TO 45 MPH...LOCALLY HIGHER NEAR TERRAIN-CHANNELED
AREAS.

* IMPACTS...DIFFICULT DRIVING CONDITIONS ESPECIALLY ALONG NORTH-
SOUTH ROADS. BLOWING DUST MAY ALSO DEVELOP...REDUCING
VISIBILITY AT TIMES.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN
30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND
58 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY
FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
CAUTION.

&&
\$\$

┌
912
FXUS65 KPSR 082110
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
210 PM MST WED JUL 8 2015

.SYNOPSIS...
THUNDERSTORM CHANCES WILL BE SIGNIFICANTLY LOWER THAN USUAL FOR THE MIDDLE OF THE MONSOON SEASON...AND PRIMARILY RELEGATED TO THE MOUNTAINS OF NORTHERN AND EASTERN ARIZONA THE NEXT SEVERAL DAYS. DESPITE THE LACK OF STORM ACTIVITY...TEMPERATURES WILL REMAIN NEAR TO SLIGHTLY BELOW NORMAL. THIS WEEKEND AND EARLY NEXT WEEK...HIGH PRESSURE WILL STRENGTHEN AGAIN LEADING TO WARMER TEMPERATURES. THERE MAY ALSO BE AN INCREASE IN STORM ACTIVITY...MAINLY OVER EASTERN ARIZONA.

&&

.DISCUSSION...
A SUBTLE SHORTWAVE WITHIN THE STRONG SOUTHWEST FLOW ALOFT AND ASSOCIATED MOISTURE AXIS HAS LIFTED NORTHEAST WITH LARGER SCALE SUBSIDENCE AND ADDITIONAL DRYING WORKING INTO THE MAJORITY OF THE FORECAST AREA THIS AFTERNOON. OBJECTIVE ANALYSIS INDICATES INSTABILITY SOLELY RELEGATED TO THE NORTHERN AND EASTERN PORTIONS OF THE STATE...WITH LITTLE TO NO OPPORTUNITY FOR ADDITIONAL AFTERNOON CONVECTION (SANS SRN GILA COUNTY). THEREFORE...ATTENTION TURNS TO IMPACTS FROM GUSTY WINDS INCLUDING THE STRONG LIKELIHOOD FOR AN IMPRESSIVE AND UNSEASONABLE SUNDOWNER EVENT THROUGH SWRN IMPERIAL COUNTY. THE AREA WEST OF EL CENTRO THROUGH THE IN-KO-PAH GORGE ALONG I-8 WILL LIKELY EXPERIENCE PERIODIC GUSTS AROUND 45 MPH CREATING HAZARDOUS DRIVING CONDITIONS FOR HIGH PROFILE VEHICLES...JUSTIFYING A WIND ADVISORY FOR JUST THE SMALL SOUTHWEST SEGMENT OF IMPERIAL COUNTY. WHILE STRONGER WINDS MAY BEGIN AS EARLY AS LATE THIS AFTERNOON...TRADITIONALLY THE TIMING OF STRONGEST WINDS SUGGESTS AROUND AND THE FEW HOURS AFTER SUNSET WILL EXPERIENCE THE STRONGEST GUSTS AND LARGEST IMPACTS.

THURSDAY AND FRIDAY...
THE UPPER LOW BECOMES CENTERED OVER CALIFORNIA THURSDAY WITH AN ANOMALOUS JET STREAK AND VORT MAX RAPIDLY SWINGING THROUGH THE MOHAVE DESERT REGION DURING THE AFTERNOON AND EVENING. IN FACT...12Z KTWC AND KNKX SOUNDINGS SAMPLED H2 WESTERLY WINDS NEAR 100KT...CORRESPONDING TO A U-WIND COMPONENT ANOMALY OF AN IMPRESSIVE 4-5 NORMALIZED STANDARD DEVIATIONS ABOVE AVERAGE (VERY UN-MONSOON SEASON LIKE). GIVEN THE UNUSUAL JET STRENGTH...A NICE BULLSEYE OF Q FORCING ASSOCIATED WITH THE VORTICITY CENTER LIFTS INTO NWRN ARIZONA...HOWEVER ONLY BRUSHES EASTERN ARIZONA WHERE THE BETTER MOISTURE RESIDES.

TO VARYING DEGREES...MODELS DO INDICATE MOISTURE INCREASING WITH BACKED MIDLEVEL WINDS OVER SOUTHEAST ARIZONA THURSDAY IN RESPONSE TO THE APPROACHING LOW. THUS...SOMEWHAT HIGHER POPS OVER THE EASTERN CWA WERE RETAINED. THIS LOW ALSO WILL PROVIDE COOLER TEMPERATURES THURSDAY...ESPECIALLY IN WESTERN PORTIONS OF THE FORECAST AREA. IN FACT...A NUMBER OF LOCATIONS OVER SOUTHEAST CALIFORNIA AND FAR SOUTHWEST ARIZONA ARE ANTICIPATED TO REMAIN JUST BELOW 100 DEGREES. HIGH TEMPS OVER SOUTH-CENTRAL ARIZONA INCLUDING THE PHOENIX AREA WILL BE SLIGHTLY WARMER BUT STILL BELOW NORMAL. AS THE FIRST LOW PRESSURE SYSTEM QUICKLY MOVES NORTHEASTWARD AND WEAKENS...TROUING NEAR THE CALIFORNIA COAST REDEVELOPS FRIDAY. THUS ANTICIPATE LITTLE CHANGE IN TEMPERATURES...AND EVEN LESS STORM ACTIVITY WITH RENEWED STRONG SWLY FLOW ALOFT.

SATURDAY AND SUNDAY...
HIGH PRESSURE OVER NORTHERN MEXICO AS WELL AS THE SOUTHEAST STATES IS PROGGED TO CONSOLIDATE AND BECOME CENTERED OVER WEST TEXAS THIS WEEKEND. THERE CONTINUES TO BE DIFFERENCES IN THE DETAILS BETWEEN THE GFS AND ECMWF...WITH THE GFS DEVELOPING DEEPER SOUTHERLY FLOW AND ADVECTING MORE MOISTURE INTO THE REGION VERSUS THE ECMWF. EVEN TAKING THE GFS AT FACE VALUE...1000-700MB MEAN MIXING RATIOS LOOK BORDERLINE FOR ORGANIZED CONVECTION AND THIS IS REFLECTED IN MODEST FORECAST CAPE. WOULD ANTICIPATE THAT STORM ACTIVITY OVER SOUTHEAST ARIZONA WILL IMPINGE UPON SOUTH-CENTRAL ARIZONA THIS WEEKEND...HOWEVER IT LOOKS LIKE A SITUATION WHERE STORMS WILL STRUGGLE TO SURVIVE OVER THE LOWER DESERTS AND BLOWING DUST WOULD BE THE MOST LIKELY IMPACT. OF NOTE...THE GFS BRINGS A PERTURBATION/VORT MAX THROUGH THE AREA ON SUNDAY WHICH WOULD SUGGEST A BETTER CHANCE

July 8, 2015 Excpetional Event, Imperial County

Appendix A - Supplemental

OF STORMS SUNDAY VERSUS SATURDAY BUT CANNOT PUT A LOT OF STOCK IN THAT SCENARIO THIS FAR OUT. WITH THE RIDGE STRENGTHENING...TEMPS BEGIN A WARMING TREND TO NEAR NORMAL.

MONDAY AND TUESDAY...

THE GFS CONTINUES TO DEPICT MORE OF A SOUTHERLY COMPONENT TO THE FLOW FOR MONDAY THAN THE ECMWF RESULTING IN MORE MOISTURE...BUT IT STILL LOOKS BORDERLINE. THE GFS THEN SHOWS SOME DECLINE IN MOISTURE TUESDAY AS THE COASTAL TROUGHING MOVES ASHORE AND THE RIDGE SAGS SOUTHWARD A BIT. STILL NOT AS DRY AS ECMWF BUT ENOUGH SUCH THAT STORM ACTIVITY WOULD BE MEAGER. FURTHER WARMING IS EXPECTED EARLY NEXT WEEK WITH HIGHS AT MANY OF THE LOW DESERT LOCATIONS REACHING THE 110 DEGREE MARK.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...
BREEZY CONDITIONS WILL DEVELOP THIS AFTERNOON IN THE PHOENIX AREA. SOUTHWESTERLY GUSTS MAY REACH AS HIGH AS 20-25 KT BY 20Z. IMPROVING CONDITIONS EXPECTED THIS EVENING AS WINDS SUBSIDE. THUNDERSTORMS WILL BE ISOLATED IN COVERAGE THIS AFTERNOON AND WILL LIKELY REMAIN CONFINED TO THE HIGHER TERRAIN WELL NORTH AND EAST OF PHOENIX.

SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

WINDS WILL INCREASE LATE THIS AFTERNOON...PARTICULARLY AT KIPL...WHERE GUSTS MAY REACH AS HIGH AS 25-30 KT. WINDS WILL SUBSIDE SOMEWHAT AFTER SUNSET...HOWEVER SUSTAINED WINDS ABOVE 10 KT WILL PERSIST OVERNIGHT.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

FRIDAY THROUGH TUESDAY...

THE FLOW PATTERN WILL TRANSITION FROM SOUTHWESTERLY AND UNFAVORABLE FOR EXTENSIVE MOISTURE AND STORMS DURING THE FIRST PART OF THE WEEKEND...TO MORE TRADITIONAL MONSOON SEASON SOUTHERLY EARLY NEXT WEEK. THUNDERSTORM CHANCES WILL MOSTLY BE LIMITED TO HIGHER TERRAIN LOCATIONS NORTH AND EAST OF PHOENIX...THOUGH COULD BEGIN MOVING WESTWARD NEXT WEEK. AFTERNOON HUMIDITY LEVELS IN A 10-20 PERCENT RANGE DURING THE WEEKEND WILL INCREASE TO A 15-25 PERCENT RANGE NEXT WEEK. OVERNIGHT RECOVERY WILL BE GOOD. DIURNALLY DRIVEN WINDS SPEEDS AND DIRECTIONS WILL PREDOMINATE MUCH OF THIS TIME...THOUGH STRONGER THAN USUAL AFTERNOON UPSLOPE GUSTINESS WILL STILL BE EVIDENT ACROSS MUCH OF THE DISTRICT.

&&

.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT ANY SIGNIFICANT WEATHER CONDITIONS ACCORDING TO STANDARD OPERATING PROCEDURES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...WIND ADVISORY FROM 3 PM THIS AFTERNOON TO 7 AM PDT THURSDAY FOR CAZ033.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...MO/AJ

AVIATION...HIRSCH

FIRE WEATHER...18

134
FXUS65 KPSR 090436
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
935 PM MST WED JUL 8 2015

.SYNOPSIS...

THUNDERSTORM CHANCES WILL BE SIGNIFICANTLY LOWER THAN USUAL FOR THE MIDDLE OF THE MONSOON SEASON...AND PRIMARILY RELEGATED TO THE MOUNTAINS OF NORTHERN AND EASTERN ARIZONA THE NEXT SEVERAL DAYS. DESPITE THE LACK OF STORM ACTIVITY...TEMPERATURES WILL REMAIN NEAR TO SLIGHTLY BELOW NORMAL. THIS WEEKEND AND EARLY NEXT WEEK...HIGH PRESSURE WILL STRENGTHEN AGAIN LEADING TO WARMER TEMPERATURES. THERE MAY ALSO BE AN INCREASE IN STORM ACTIVITY...MAINLY OVER EASTERN ARIZONA.

&&

.DISCUSSION...

MINIMAL RADAR ACTIVITY OCCURRED ACROSS OUR FORECAST AREA THIS EVENING...WITH ONLY A FEW SHORT-LIVED THUNDERSHOWERS THAT SKIRTED THE SOUTHERN GILA COUNTY HIGHER TERRAIN A FEW HOURS AGO. 00Z/03Z PSR BALLOONS INDICATED THE DEEP MIXING PROFILE TODAY AND A THINNING PWAT SFC DOWN AROUND THE 1 INCH MARK...ALONG WITH DOMINANT WEST TO SOUTHWEST WINDS THROUGH THE MAJORITY OF THE PROFILE. THE UNSEASONABLY STRONG WESTERLY WINDS ALSO SHUNTED THE STORM ACTIVITY OFF WELL TO OUR EAST AND NORTH...KEEPING AREAS OF NM...UT...AND CO BUSY WITH STORMS THIS EVENING.

WHILE THE RADAR SCOPES WERE GENERALLY QUIET TONIGHT...STRONG WESTERLY GAP/SUNDOWNER WINDS CONTINUE ALONG THE PENINSULAR RANGES BETWEEN SAN DIEGO AND IMPERIAL COUNTIES. LATEST OBS OUT OF EL CENTRO HAS WIND GUSTS IN THE 30S WITH SOME VISIBILITY REDUCTION IN BLOWING DUST. EVENING CROSS SECTION MODEL FCSTS INDICATE THE STABLE LAYER DEFLECTION AND RESULTING GUSTY SFC WINDS INTO THE IMPERIAL VALLEY...AND EVEN A BIT FURTHER INTO THE FAR EASTERN REACHES OF IMPERIAL COUNTY...WILL CONTINUE FOR THE NEXT SEVERAL HOURS. WIND ADVISORY CONTINUES FOR THE I-8 GRADE INTO IN-KO-PAH THROUGH THURSDAY AM.

GRID UPDATES TONIGHT INCLUDED EXPANDING THE COVERAGE OF PATCHY BLOWING DUST/SAND WORDING THROUGH EL CENTRO/IMPERIAL OVERNIGHT. THE GFS-GEM-NAM 00Z RUNS INDICATE SOME POTENTIAL PRECIP ACTIVITY BUBBLING UP OVER GILA AND FAR EASTERN PINAL COUNTIES TOWARDS SUNRISE THURSDAY...POSSIBLY SIMILAR TO THE THIN BAND OF ACTIVITY OBSERVED ACROSS THE AREA THIS MORNING. EVENING HI-RES FCSTS ARE NOT AS ENTHUSED...BUT THE HRRR SAT FCST PRODUCT DOES INDICATE SOME COOLER CLOUD TOPS AND MAYBE A SHOWER OR TWO ALONG THE RIM AND EASTERN AZ HIGHER TERRAIN TOWARDS THURSDAY MORNING. KEPT SLIGHT CHANCES FOR THUNDER OVERNIGHT FOR THOSE AREAS WHILE MOSTLY ZEROING OUT POPS FOR THE LOWER DESERT ELEVATIONS.

&&

.PREVIOUS DISCUSSION...

A SUBTLE SHORTWAVE WITHIN THE STRONG SOUTHWEST FLOW ALOFT AND ASSOCIATED MOISTURE AXIS HAS LIFTED NORTHEAST WITH LARGER SCALE SUBSIDENCE AND ADDITIONAL DRYING WORKING INTO THE MAJORITY OF THE FORECAST AREA THIS AFTERNOON. OBJECTIVE ANALYSIS INDICATES INSTABILITY SOLELY RELEGATED TO THE NORTHERN AND EASTERN PORTIONS OF THE STATE...WITH LITTLE TO NO OPPORTUNITY FOR ADDITIONAL AFTERNOON CONVECTION (SANS SRN GILA COUNTY). THEREFORE...ATTENTION TURNS TO IMPACTS FROM GUSTY WINDS INCLUDING THE STRONG LIKELIHOOD FOR AN IMPRESSIVE AND UNSEASONABLE SUNDOWNER EVENT THROUGH SWRN IMPERIAL COUNTY. THE AREA WEST OF EL CENTRO THROUGH THE IN-KO-PAH GORGE ALONG I-8 WILL LIKELY EXPERIENCE PERIODIC GUSTS AROUND 45 MPH CREATING HAZARDOUS DRIVING CONDITIONS FOR HIGH PROFILE VEHICLES...JUSTIFYING A WIND ADVISORY FOR JUST THE SMALL SOUTHWEST SEGMENT OF IMPERIAL COUNTY. WHILE STRONGER WINDS MAY BEGIN AS EARLY AS LATE THIS AFTERNOON...TRADITIONALLY THE TIMING OF STRONGEST WINDS SUGGESTS AROUND AND THE FEW HOURS AFTER SUNSET WILL EXPERIENCE THE STRONGEST GUSTS AND LARGEST IMPACTS.

THURSDAY AND FRIDAY...

THE UPPER LOW BECOMES CENTERED OVER CALIFORNIA THURSDAY WITH AN ANOMALOUS JET STREAK AND VORT MAX RAPIDLY SWINGING THROUGH THE MOHAVE DESERT REGION DURING THE AFTERNOON AND EVENING. IN FACT...12Z KTCW AND KNKX SOUNDINGS SAMPLED H2 WESTERLY WINDS NEAR

July 8, 2015 Exceptional Event, Imperial County**Appendix A - Supplemental**

100KT...CORRESPONDING TO A U-WIND COMPONENT ANOMALY OF AN IMPRESSIVE
4-5 NORMALIZED STANDARD DEVIATIONS ABOVE AVERAGE (VERY UN-MONSOON
SEASON LIKE). GIVEN THE UNUSUAL JET STRENGTH...A NICE BULLSEYE OF Q
FORCING ASSOCIATED WITH THE VORTICITY CENTER LIFTS INTO NWRN
ARIZONA...HOWEVER ONLY BRUSHES EASTERN ARIZONA WHERE THE BETTER
MOISTURE RESIDES.

TO VARYING DEGREES...MODELS DO INDICATE MOISTURE INCREASING WITH
BACKED MIDLEVEL WINDS OVER SOUTHEAST ARIZONA THURSDAY IN RESPONSE TO
THE APPROACHING LOW. THUS...SOMEWHAT HIGHER POPS OVER THE EASTERN
CWA WERE RETAINED. THIS LOW ALSO WILL PROVIDE COOLER TEMPERATURES
THURSDAY...ESPECIALLY IN WESTERN PORTIONS OF THE FORECAST AREA. IN
FACT...A NUMBER OF LOCATIONS OVER SOUTHEAST CALIFORNIA AND FAR
SOUTHWEST ARIZONA ARE ANTICIPATED TO REMAIN JUST BELOW 100 DEGREES.
HIGH TEMPS OVER SOUTH-CENTRAL ARIZONA INCLUDING THE PHOENIX AREA
WILL BE SLIGHTLY WARMER BUT STILL BELOW NORMAL. AS THE FIRST LOW
PRESSURE SYSTEM QUICKLY MOVES NORTHEASTWARD AND WEAKENS...TROUGHING
NEAR THE CALIFORNIA COAST REDEVELOPS FRIDAY. THUS ANTICIPATE LITTLE
CHANGE IN TEMPERATURES...AND EVEN LESS STORM ACTIVITY WITH RENEWED
STRONG SWLY FLOW ALOFT.

SATURDAY AND SUNDAY...
HIGH PRESSURE OVER NORTHERN MEXICO AS WELL AS THE SOUTHEAST STATES
IS PROGGED TO CONSOLIDATE AND BECOME CENTERED OVER WEST TEXAS THIS
WEEKEND. THERE CONTINUES TO BE DIFFERENCES IN THE DETAILS BETWEEN
THE GFS AND ECMWF...WITH THE GFS DEVELOPING DEEPER SOUTHERLY FLOW
AND ADVECTING MORE MOISTURE INTO THE REGION VERSUS THE ECMWF. EVEN
TAKING THE GFS AT FACE VALUE...1000-700MB MEAN MIXING RATIOS LOOK
BORDERLINE FOR ORGANIZED CONVECTION AND THIS IS REFLECTED IN MODEST
FORECAST CAPE. WOULD ANTICIPATE THAT STORM ACTIVITY OVER SOUTHEAST
ARIZONA WILL IMPINGE UPON SOUTH-CENTRAL ARIZONA THIS
WEEKEND...HOWEVER IT LOOKS LIKE A SITUATION WHERE STORMS WILL
STRUGGLE TO SURVIVE OVER THE LOWER DESERTS AND BLOWING DUST WOULD BE
THE MOST LIKELY IMPACT. OF NOTE...THE GFS BRINGS A PERTURBATION/VORT
MAX THROUGH THE AREA ON SUNDAY WHICH WOULD SUGGEST A BETTER CHANCE
OF STORMS SUNDAY VERSUS SATURDAY BUT CANNOT PUT A LOT OF STOCK IN
THAT SCENARIO THIS FAR OUT. WITH THE RIDGE STRENGTHENING...TEMPS
BEGIN A WARMING TREND TO NEAR NORMAL.

MONDAY AND TUESDAY...
THE GFS CONTINUES TO DEPICT MORE OF A SOUTHERLY COMPONENT TO THE
FLOW FOR MONDAY THAN THE ECMWF RESULTING IN MORE MOISTURE...BUT IT
STILL LOOKS BORDERLINE. THE GFS THEN SHOWS SOME DECLINE IN MOISTURE
TUESDAY AS THE COASTAL TROUGHING MOVES ASHORE AND THE RIDGE SAGS
SOUTHWARD A BIT. STILL NOT AS DRY AS ECMWF BUT ENOUGH SUCH THAT
STORM ACTIVITY WOULD BE MEAGER. FURTHER WARMING IS EXPECTED EARLY
NEXT WEEK WITH HIGHS AT MANY OF THE LOW DESERT LOCATIONS REACHING
THE 110 DEGREE MARK.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...
ELEVATED WEST SFC WINDS TO PERSIST LATE INTO THIS EVENING...POSSIBLY
LASTING THROUGH THE 09/10-11Z AM HOURS. CONFIDENCE IS LOW IN TIMING
THE SHIFT FOR KPHX...BUT BETTER FOR THE SATELLITE AIRFIELDS OF KSDL
AND KIWA. EARLY EVENING SKIES MOSTLY CLEAR WITH HIGH LEVEL CLOUDS
ONLY AOA 25KFT MOVING FROM THE WEST TOWARDS EARLY THURSDAY AM.

SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND
KBLH...
GUSTY SOUTHWEST WINDS WILL BE COMMON THROUGH THE EVENING HOURS.
FAVORED DOWNSLOPE AREAS WILL SEE THE STRONGEST GUSTS...IN EXCESS OF
35KT...WHICH WILL LAST WELL INTO THE OVERNIGHT HOURS. AFTER
SUNRISE/13Z WINDS WILL TEMPORARILY WEAKEN THEN PICK BACK UP NEAR 18Z
ALBEIT WEAKER. EARLY EVENING SKIES TO REMAIN MOSTLY CLEAR BEFORE
HIGH LEVEL CLOUDS MOVE IN FROM THE WEST...ONLY AOA 20-25KFT.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...
FRIDAY THROUGH TUESDAY...
THE FLOW PATTERN WILL TRANSITION FROM SOUTHWESTERLY AND UNFAVORABLE
FOR EXTENSIVE MOISTURE AND STORMS DURING THE FIRST PART OF THE
WEEKEND...TO MORE TRADITIONAL MONSOON SEASON SOUTHERLY EARLY NEXT
WEEK. THUNDERSTORM CHANCES WILL MOSTLY BE LIMITED TO HIGHER TERRAIN
LOCATIONS NORTH AND EAST OF PHOENIX...THOUGH COULD BEGIN MOVING

July 8, 2015 Exceptional Event, Imperial County

Appendix A - Supplemental

WESTWARD NEXT WEEK - AFTERNOON HUMIDITY LEVELS IN A 10-20 PERCENT RANGE DURING THE WEEKEND WILL INCREASE TO A 15-25 PERCENT RANGE NEXT WEEK. OVERNIGHT RECOVERY WILL BE GOOD. DIURNALLY DRIVEN WINDS SPEEDS AND DIRECTIONS WILL PREDOMINATE MUCH OF THIS TIME...THOUGH STRONGER THAN USUAL AFTERNOON UPSLOPE GUSTINESS WILL STILL BE EVIDENT ACROSS MUCH OF THE DISTRICT.

&&

.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT ANY SIGNIFICANT WEATHER CONDITIONS ACCORDING TO STANDARD OPERATING PROCEDURES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...WIND ADVISORY FROM 3 PM THIS AFTERNOON TO 7 AM PDT THURSDAY FOR CAZ033.

&&

\$\$

VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...NOLTE

PREVIOUS DISCUSSION...MO/AJ

AVIATION...NOLTE/INIGUEZ

FIRE WEATHER...18

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NPWSGX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
941 PM PDT WED JUL 8 2015

...LOCALLY STRONG WINDS THROUGH THURSDAY EVENING FOR THE MOUNTAIN
PASSES AND INTO THE DESERT SLOPES...

.AN UPPER LEVEL TROUGH WILL PRODUCE STRONG ONSHORE FLOW AND GENERATE
LOCALLY STRONG AND GUSTY WINDS...ESPECIALLY DURING THE EVENING
AND EARLY MORNING HOURS. THE AREAS AFFECTED INCLUDE THE NORTHERN
COACHELLA VALLEY NEAR SAN GORGONIO PASS...AND THE WIND PRONE
LOCATIONS IN THE SAN DIEGO COUNTY DESERTS...SUCH AS INTERSTATE 8.
WINDS WILL WEAKEN LATE THURSDAY NIGHT.

CAZ062-065-091245-
/O.CON.KSGX.WI.Y.0023.000000T0000Z-150710T0600Z/
SAN DIEGO COUNTY DESERTS-SAN GORGONIO PASS NEAR BANNING-
941 PM PDT WED JUL 8 2015

...WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM PDT THURSDAY...

* WINDS...WEST WINDS 20 TO 30 MPH WITH GUSTS TO 50 MPH AND
ISOLATED GUSTS TO 60 MPH AT TIMES.

* TIMING...STRONGEST WINDS OCCURRING THIS EVENING THROUGH EARLY
THURSDAY MORNING...AND AGAIN THURSDAY EVENING.

* LOCATION...THROUGH AND BELOW THE SAN GORGONIO PASS ALONG AND
NORTH OF INTERSTATE 10. WIND-PRONE AREAS OF THE SAN DIEGO
COUNTY DESERTS...INCLUDING INTERSTATE 8.

* VISIBILITY...BLOWING DUST AND SAND COULD REDUCE VISIBILITY TO 1
MILE OR LESS AT TIMES ON THE LOWER DESERT SLOPES AND FLOORS.

* IMPACTS...HIGH PROFILE VEHICLES COULD HAVE DIFFICULTY
NAVIGATING ROADS WITH STRONG CROSS WINDS.

* OUTLOOK...STRONG WINDS WILL GRADUALLY SUBSIDE LATE THURSDAY
NIGHT INTO FRIDAY MORNING.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WIND GUSTS OF 50 MPH ARE EXPECTED.
WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR
HIGH PROFILE VEHICLES. USE EXTRA CAUTION.

&&

\$\$
TARDY

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URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PHOENIX AZ
222 AM MST THU JUL 9 2015

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/O.NEW.KPSR.WI.Y.0010.150710T0000Z-150710T0700Z/
/O.CON.KPSR.WI.Y.0009.000000T0000Z-150709T1400Z/
IMPERIAL COUNTY-
INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO...
GLAMIS...IMPERIAL...THE SALTON SEA
222 AM MST THU JUL 9 2015

...WIND ADVISORY REMAINS IN EFFECT UNTIL 7 AM PDT THIS MORNING...
...WIND ADVISORY IN EFFECT FROM 5 PM THIS AFTERNOON TO MIDNIGHT
PDT TONIGHT...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT FROM 5 PM THIS AFTERNOON TO
MIDNIGHT PDT TONIGHT.

* AFFECTED AREA...FAR SOUTHWEST IMPERIAL COUNTY...INCLUDING
OCOTILLO...PORTIONS OF INTERSTATE 8 FROM NEAR DIXIELAND WEST
TOWARD SAN DIEGO COUNTY...AND SALTON CITY INCLUDING NEARBY
PORTIONS OF HIGHWAY 86.

* TIMING...THROUGH 7 AM THIS MORNING AND AGAIN FROM 5 PM TO MIDNIGHT
TONIGHT.

* WINDS...SUSTAINED WINDS FROM THE WEST OF 20 TO 30 MPH WITH
GUSTS UP TO 45 MPH...LOCALLY HIGHER NEAR TERRAIN-CHANNELED
AREAS.

* IMPACTS...DIFFICULT DRIVING CONDITIONS ESPECIALLY ALONG NORTH-
SOUTH ROADS. BLOWING DUST MAY ALSO DEVELOP...REDUCING
VISIBILITY AT TIMES.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN
30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND
58 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY
FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
CAUTION.

&&
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National Weather Service Raw Text Product

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AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
330 AM MST THU JUL 9 2015

.SYNOPSIS...
THUNDERSTORM CHANCES WILL BE SIGNIFICANTLY LOWER THAN USUAL FOR THE MIDDLE OF THE MONSOON SEASON...AND PRIMARILY RELEGATED TO THE MOUNTAINS OF NORTHERN AND EASTERN ARIZONA THE NEXT SEVERAL DAYS. DESPITE THE LACK OF STORM ACTIVITY...TEMPERATURES WILL REMAIN NEAR TO SLIGHTLY BELOW NORMAL. THIS WEEKEND AND EARLY NEXT WEEK...HIGH PRESSURE WILL STRENGTHEN AGAIN LEADING TO WARMER TEMPERATURES. THERE MAY ALSO BE AN INCREASE IN STORM ACTIVITY...MAINLY OVER EASTERN ARIZONA.

&&

.DISCUSSION...
AN ANOMALOUSLY STRONG LOW PRESSURE SYSTEM OFF THE CA COAST... REMINISCENT OF OUR LATE SPRING...WILL BRING WELL-BELOW NORMAL TEMPERATURES TO THE AREA TODAY ALONG WITH A CHANCE OF THUNDERSTORMS MAINLY EAST OF PHOENIX. DEWPOINTS ARE CURRENTLY IN THE 20S IN THE PHOENIX AREA...WHILE FURTHER EAST THE MOISTURE IS DEEPER AND DEWPOINTS ARE NEARING 60 DEGREES ACROSS SE AZ. IN ESSENCE...A DRY LINE IS PRESENT ACROSS SOUTH-CENTRAL AZ AND THIS BOUNDARY WILL BE A FOCUSING MECHANISM FOR CONVECTION TODAY. CONDITIONS ALOFT ARE ALSO FAVORABLE FOR ACTIVITY ACROSS AZ...WITH A DIFLUENT FLOW BETWEEN THE CLOSED LOW ACROSS CENTRAL CA AND THE RIDGE TO THE SOUTH ACROSS MEXICO. STRONG VORTICITY FORCED ASCENT AND DIVERGENCE ASSOCIATED WITH THE FRONT LEFT QUADRANT OF AN APPROACHING 80 KT JET STREAK WILL ALSO CONTRIBUTE. THE LATEST CONVECTIVE ALLOWING GUIDANCE INCLUDING THE SSEO AND THE UCAR WRF ENSEMBLE SUGGESTS THUNDERSTORMS WILL BE POSSIBLE AS EARLY AS THIS MORNING ACROSS PORTIONS OF PINAL AND GILA COUNTIES. POPS WERE RAISED IN THESE AREAS AND ARE NOW AS HIGH AS 60 PERCENT NEAR GLOBE.

SIGNIFICANT DROPS IN THICKNESSES WILL ALSO TRANSLATE TO WELL-BELOW NORMAL TEMPERATURES. HIGH TEMPERATURES IN PARTS OF THE PHOENIX AREA MAY NOT EVEN REACH THE 100 DEGREE MARK...WHICH IS REMARKABLE CONSIDERING THAT SKIES WILL BE MOSTLY SUNNY AND THIS IS THE CLIMATOLOGICALLY HOTTEST PART OF THE YEAR. FURTHER WEST ACROSS SE CA...GUSTY WINDS WILL AGAIN BE A THREAT. STRONG WESTERLY WINDS WILL CREATE HAZARDOUS DRIVING CONDITIONS...PARTICULARLY ALONG THE PASSES OF I-8 NEAR THE SAN DIEGO MOUNTAINS.

THE AFOREMENTIONED LOW PRESSURE SYSTEM WILL WEAKEN WHILE DRIFTING NORTHEASTWARD ALONG THE WEST COAST FRIDAY. THE DEEPEST MOISTURE WILL BE TRANSPORTED WELL TO OUR EAST ALONG WITH THE CHANCE OF ISOLATED THUNDERSTORMS. WELL BELOW NORMAL TEMPERATURES WILL CONTINUE ACROSS THE DESERT SOUTHWEST FOR ONE MORE DAY AGAIN UNDER MOSTLY SUNNY SKIES.

A SPRAWLING ANTICYCLONE WILL DRIFT WESTWARD THIS WEEKEND...BECOMING REESTABLISHED TO OUR EAST. THIS WILL RESULT IN A SOUTH TO SOUTHWESTERLY FLOW THAT WILL PERSIST THROUGH NEXT WEEK. THE BUILDING RIDGE WILL TRANSLATE INTO A WARMING TREND ACROSS THE REGION. BUT IN TERMS OF MOISTURE AND THE POTENTIAL FOR THUNDERSTORMS...THE BATTLE WILL BE ON BETWEEN DRIER AIR ASSOCIATED WITH A PERSISTENT TROUGH ALONG THE WEST COAST AND DEEPER MOISTURE WITH THE MONSOON HIGH. AN ACTIVE DAY CANNOT BE RULED OUT SOMETIME NEXT WEEK...PARTICULARLY EAST OF PHOENIX. HOWEVER...THE LATEST GUIDANCE POINTS TO PROBABILITIES BELOW CLIMO.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL... ELEVATED WEST SFC WINDS TO PERSIST LATE INTO THIS EVENING...POSSIBLY LASTING THROUGH THE 09/10-11Z AM HOURS. CONFIDENCE IS LOW IN TIMING THE SHIFT FOR KPHX...BUT BETTER FOR THE SATELLITE AIRFIELDS OF KSDL AND KIWA. EARLY EVENING SKIES MOSTLY CLEAR WITH HIGH LEVEL CLOUDS GNLV AOA 25KFT MOVING FROM THE WEST TOWARDS EARLY THURSDAY AM.

SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH... GUSTY SOUTHWEST WINDS WILL BE COMMON THROUGH THE EVENING HOURS. FAVORED DOWNSLOPE AREAS WILL SEE THE STRONGEST GUSTS...IN EXCESS OF

July 8, 2015 Exceptional Event, Imperial County**Appendix A - Supplemental**

35KT...WHICH WILL LAST WELL INTO THE OVERNIGHT HOURS. AFTER
SUNRISE/13Z WINDS WILL TEMPORARILY WEAKEN THEN PICK BACK UP NEAR 18Z
ALBEIT WEAKER. EARLY EVENING SKIES TO REMAIN MOSTLY CLEAR BEFORE
HIGH LEVEL CLOUDS MOVE IN FROM THE WEST...GNLY AOA 20-25KFT.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

FRIDAY THROUGH TUESDAY...

THE FLOW PATTERN WILL TRANSITION FROM SOUTHWESTERLY AND UNFAVORABLE
FOR EXTENSIVE MOISTURE AND STORMS DURING THE FIRST PART OF THE
WEEKEND...TO MORE TRADITIONAL MONSOON SEASON SOUTHERLY EARLY NEXT
WEEK. THUNDERSTORM CHANCES WILL MOSTLY BE LIMITED TO HIGHER TERRAIN
LOCATIONS NORTH AND EAST OF PHOENIX...THOUGH COULD BEGIN MOVING
WESTWARD NEXT WEEK. AFTERNOON HUMIDITY LEVELS IN A 10-20 PERCENT
RANGE DURING THE WEEKEND WILL INCREASE TO A 15-25 PERCENT RANGE NEXT
WEEK. OVERNIGHT RECOVERY WILL BE GOOD. DIURNALLY DRIVEN WINDS SPEEDS
AND DIRECTIONS WILL PREDOMINATE MUCH OF THIS TIME...THOUGH STRONGER
THAN USUAL AFTERNOON UPSLOPE GUSTINESS WILL STILL BE EVIDENT ACROSS
MUCH OF THE DISTRICT.

&&

.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT ANY SIGNIFICANT WEATHER CONDITIONS
ACCORDING TO STANDARD OPERATING PROCEDURES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...WIND ADVISORY UNTIL 7 AM PDT THIS MORNING FOR CAZ033.

WIND ADVISORY FROM 5 PM THIS AFTERNOON TO MIDNIGHT PDT TONIGHT
FOR CAZ033.

&&

\$\$

VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

PREVIOUS DISCUSSION...HIRSCH

AVIATION...NOLTE/INIGUEZ

FIRE WEATHER...18

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AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
333 AM PDT THU JUL 9 2015

.SYNOPSIS...

AN UNSEASONABLY DEEP UPPER LEVEL TROUGH OF LOW PRESSURE WILL MOVE ACROSS CENTRAL CALIFORNIA TODAY. THIS WILL BRING OCCASIONAL DRIZZLE AND LIGHT RAIN THIS MORNING FOR MUCH OF THE COASTAL AND VALLEY LOCATIONS THROUGH LATE MORNING...OR EVEN EARLY AFTERNOON NEAR THE COAST. WINDS WILL BE STRONG ESPECIALLY THIS AFTERNOON AND EVENING ALONG THE MOUNTAIN PASSES AND DESERT SLOPES. UPPER LEVEL HIGH PRESSURE WILL BUILD OVER THE AREA STARTING FRIDAY...WITH A WARMING TREND THROUGH EARLY NEXT WEEK...ALONG WITH NIGHT AND MORNING CLOUDS AND FOG NEAR THE COAST AND PORTIONS OF THE VALLEYS. SOME MID AND UPPER LEVEL MOISTURE FROM MONSOONAL FLOW MAY BRING A THUNDERSTORM OR TWO TO THE MOUNTAINS SUNDAY AFTERNOON AND EARLY EVENING.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

AN ANOMALOUSLY STRONG UPPER LEVEL LOW IS MOVING ONTO THE BIG SUR COAST JUST SOUTH OF MONTEREY EARLY THIS MORNING. SHORT TERM MODELS ARE IN FINE AGREEMENT TO STRENGTHEN THIS LOW LATER THIS MORNING TO AROUND 570 DM AT H5...AND TRACK ALMOST DUE EAST ACROSS THE CENTRAL CALIFORNIA INTERIOR THROUGH THIS EVENING. MODELS ARE THEN IN SOME DISAGREEMENT BUT GENERALLY MOVE THE LOW NE INTO NORTHERN NEVADA ON FRIDAY. ONSHORE GRADIENTS ARE MODERATE TO STRONG ACROSS SOUTHERN CALIFORNIA. THE MARINE LAYER IS VERY DEEP THIS MORNING AND WEBCAMS INDICATE IT IS AFFECTING MOUNTAIN LOCATIONS UP TO ABOUT 5500 FEET. THIS IS LIKELY THE PEAK OF THE MARINE LAYER AS THE UPPER TROUGH AND VORT MAX WILL BE SWINGING THROUGH IN THE NEXT FEW HOURS. AS THE UPPER ENERGY SWEEPS THROUGH...WE SHOULD SEE THE STRATUS DECKS LOWER A BIT AND BEGIN TO SQUEEZE OUT DRIZZLE AND OCCASIONAL LIGHT RAIN...FROM THE COAST THROUGH THE VALLEYS AND INTO THE WESTERN SLOPES OF THE MOUNTAINS. HAVE CONTINUED TO MENTION A 20 PERCENT CHANCE OF MEASURABLE PRECIPITATION IN THOSE LOCATIONS THIS MORNING. WIND GUSTS WILL CONTINUE TO BE STRONG THROUGH THIS EVENING IN THE FAVORED WEST TO EAST ORIENTED PASSES SUCH AS SAN GORGONIO AND THE INTERSTATE 8 PASS EAST OF SAN DIEGO...WHERE GUSTS OF 50 TO 60 MPH WILL BE LIKELY AT TIMES.

FOR FRIDAY THROUGH SATURDAY A BAGGY TROUGHY PATTERN WILL TEND TO CONTINUE ACROSS THE EASTERN PACIFIC. ALTHOUGH GRADIENTS WILL NOT BE NEARLY AS STRONG AS WHAT WE'RE SEEING TODAY...EXPECT TO CONTINUE TO SEE COOL MARINE INFLUENCED WEATHER CONDITIONS FOR COASTAL AND VALLEY LOCATIONS...WITH TEMPERATURES NEAR NORMAL FOR INLAND LOCATIONS. THE WESTERN PERIPHERY OF MONSOONAL FLOW MAY EDGE INTO SOUTHERN CALIFORNIA ON SUNDAY...BEFORE SHUNTING TO THE EAST ON MONDAY...AND THIS FEATURE COULD BRING JUST ENOUGH MOISTURE FOR ISOLATED SHOWERS AND STORMS NEAR AND ALONG THE HIGHER MOUNTAIN TOPS SUNDAY AFTERNOON AND EVENING. HAVE MAINTAINED 20 POPS FOR THOSE AREAS SUNDAY AFTERNOON AND EVENING.

NOT MUCH CHANGE IN THE PATTERN THROUGH MUCH OF NEXT WEEK WITH TROUGHINESS ALONG THE CALIFORNIA COAST GENERALLY PERSISTING. THE SUBTROPICAL HIGH WILL LIKELY BE JUST TOO FAR EAST TO BRING MUCH MONSOONAL FLOW INTO OUR REGION. MEDIUM RANGE MODELS ARE IN PRETTY GOOD AGREEMENT TO KEEP THE HIGH EAST OVER TEXAS WHICH WOULD KEEP THE MONSOONAL FOCUS ON NEW MEXICO AND ARIZONA...MORE THAN SOUTHERN CALIFORNIA.

&&

.AVIATION...

090930Z...COAST/VALLEYS...STRATUS...WITH BASES 2000-3500 FT MSL AND TOPS TO 5500 FT MSL...WILL CONTINUE OVER THE AREA THIS MORNING. CEILINGS MAY LOWER AT TIMES AS -RA DEVELOPS THIS MORNING DUE TO LOW PRESSURE TO OUR NORTH. -DZ WILL LIKELY BE MORE WIDESPREAD THAN -RA. STRATUS WILL OBSCURE HIGHER TERRAIN THIS MORNING. LOW CLOUDS WILL CLEAR TOWARDS THE COAST BY EARLY AFTN...BUT MAY LINGER ALONG

July 8, 2015 Exceptional Event, Imperial County**Appendix A - Supplemental**

PORTIONS OF THE COAST THROUGHOUT THE DAY. LOW CLOUDS WILL REDEVELOP AND PUSH INLAND AGAIN THIS EVENING...WITH SLIGHTLY LOWER TOPS AND BASES.

MTNS/DESERTS...LOWER TERRAIN WILL BE OBSCURED ON COASTAL MTN SLOPES BELOW 5500 FT MSL THROUGH THIS MORNING. ELSEWHERE...MOSTLY CLEAR WITH UNRESTRICTED VIS WILL PREVAIL THROUGH FRI MORNING. AREAS OF SFC WEST WINDS 15-25 KT WITH GUSTS TO 45 KT WILL OCCUR THROUGH SAN GORGONIO PASS/FAR NORTHERN COACHELLA VALLEY AND ON DESERT MTN SLOPES/FOOTHILLS. STRONGEST WINDS WILL BE THROUGH EARLY THIS MORNING...AND AGAIN THIS AFTN THROUGH TONIGHT.

&&

.MARINE...

230 AM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH MONDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY UNTIL 11 PM PDT THIS EVENING FOR SAN DIEGO COUNTY DESERTS-SAN GORGONIO PASS NEAR BANNING.

PZ...NONE.

&&

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PUBLIC...BROTHERTON
AVIATION/MARINE...JJT

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National Weather Service Raw Text Product

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July 8, 2015 Exceptional Event, Imperial County

Appendix A - Supplemental

774
SRUS46 KSGX 091349
RRMSGX

PRELIMINARY STORM PRECIPITATION TOTALS
NATIONAL WEATHER SERVICE SAN DIEGO
630 AM PDT THURSDAY JUL 09 2015

RAWS MESONET ASOS AND ALERT 24-HOUR PRECIPITATION TOTALS AS OF

630 AM THURSDAY

.TOP RAINFALL AMOUNTS FROM ALL ZONES

STATION	PRECIP(IN)	MILES/DIRECTION FROM
1. CRESTLINE RIDGE	0.33	
2. CABLE CANYON	0.12	3NE DEVORE
3. MODJESKA CANYON	0.08	5NE LAKE FOREST
4. PANORAMA POINT	0.08	7WSW LAKE ARROWHEAD
5. RAINBOW CAMP	0.04	2S TEMECULA
6. SANTIAGO CREEK	0.04	5NE LAKE FOREST
7. MURRIETA CK AT TENAJA	0.04	0 MURRIETA
8. SMALL CANYON DAM	0.04	2N HIGHLAND
9. ELDER CREEK	0.04	2E HIGHLAND
10. LAKESIDE	0.03	

.SAN DIEGO COUNTY COASTAL AREAS

.SAN DIEGO COUNTY VALLEYS

STATION	PRECIP(IN)	ELEV(FT)	DISTANCE(MI)
RAINBOW CAMP	0.04	1553	2S TEMECULA

.SAN DIEGO COUNTY MOUNTAINS

STATION	PRECIP(IN)	ELEV(FT)	DISTANCE(MI)
ECHO DELL	0.01	3060	8NW PINE VALLEY

.SAN DIEGO COUNTY DESERTS

.ORANGE COUNTY COASTAL AREAS

.SANTA ANA MOUNTAINS

STATION	PRECIP(IN)	ELEV(FT)	DISTANCE(MI)
MODJESKA CANYON	0.08	1260	5NE LAKE FOREST
SANTIAGO CREEK	0.04	1210	5NE LAKE FOREST
FREMONT CANYON RAWS	0.02	1781	6SE YORBA LINDA
SANTA ROSA PLATEAU	0.01	1980	2SSW MURRIETA

.RIVERSIDE COUNTY VALLEYS-THE INLAND EMPIRE

STATION	PRECIP(IN)	ELEV(FT)	DISTANCE(MI)
MURRIETA CK AT TENAJA	0.04	1100	0 MURRIETA

.RIVERSIDE COUNTY MOUNTAINS

.COACHELLA VALLEY

.SAN BERNARDINO COUNTY VALLEYS-THE INLAND EMPIRE

STATION	PRECIP(IN)	ELEV(FT)	DISTANCE(MI)
SMALL CANYON DAM	0.04	1810	2N HIGHLAND
ELDER CREEK	0.04	1649	2E HIGHLAND
YUCAIPA REGIONAL	0.04	2620	6E REDLANDS
DALEY SPUR	0.01	2680	5S CRESTLINE

.SAN BERNARDINO COUNTY MOUNTAINS

STATION	PRECIP(IN)	ELEV(FT)	DISTANCE(MI)
CRESTLINE RIDGE	0.33		
CABLE CANYON	0.12	5516	3NE DEVORE
PANORAMA POINT	0.08	3887	7WSW LAKE ARROWHEAD

.APPLE AND LUCERNE VALLEYS

NOTICE...THIS REPORT CONTAINS PROVISIONAL DATA FROM AUTOMATED GAUGES. THE
ACCURACY OF THIS DATA HAS NOT BE VERIFIED.
ELEV=ELEVATION IN FEET. STATIONS ABOVE THE FREEZING LEVEL WILL NOT SHOW
ACCUMULATING PRECIPITATION.

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606				
NWUS56 KSGX 090739				
LSRSGX				
PRELIMINARY LOCAL STORM REPORT				
NATIONAL WEATHER SERVICE SAN DIEGO CA				
1239 AM PDT THU JUL 9 2015				
...TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...	
...DATE...	...MAG....	..COUNTY LOCATION..ST..	...SOURCE....	
	..REMARKS..			
0422 PM	NON-TSTM WND GST 2 E	PALM SPRINGS	33.83N 116.51W	
07/08/2015	M41 MPH	RIVERSIDE	CA	ASOS
ASOS STATION PALM SPRINGS AIRPORT /PSP/				
&&				
\$\$				
NWS SAN DIEGO CA				
IRIS SYSTEM				

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